Notes Ck'd by	Survey of
Map No.	W. O. 8412 Tape No. St'd. °F
Office Work	Surveyed by Blanchard
Checked	Notes FIFO Dates 3-19-53
Date	Indexed [illegible]

F. B. [illegible]

BEACH EROSION STUDIES

~ CONTINUED ~

J. N. 8412

Continued from FB 1298

LOS ANGELES CO. 726 LOS ANGELES ENGINEERS

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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line.

F.B. 1209 Pg. 6

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 PG. 7

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. LCW. Checked _____ Survey by English Notes English Date 3-5-53

Date 4-23-52 Date _____ Map No. _____ Indexed [redacted] Date _____

Inshore

308+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in ∡ Inst. at 310+65 Sight on 308+65	
308+65 S.	1 29	20 39		19 10		N&T
15' L.			0 9	19 5		Brk.
34' L.			8 7	11 7		"
T.P.	2 78	11 03	12 14	8 25		1x2
57' L.			3 5	7 5		Brk.
82' L.			5 0	6 0		"
T.P.	0 85	7 06	4 82	6 21		1x2
120			5 3	1 8	30°35' 119	under water
130			7 4	-0 3	32°22' 129	" "
185			9 0	-1 9	41°51' 182	" "
235			10 0	-2 9	49°07' 231	" "
265			11 5	-4 4	52°36' 265	" "
300			13 3	-6 2	55°46' 299	" "

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76L298 307 10-51

76L298 307 10-51

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F.B. 12 PG. 8 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | No.
Survey by English | Notes English | Notes Chkd. | Checked | X-Sec.
Indexed R. A. Johnson | Date | Date 4-23-53 | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in X		
					Inst. at	308+65	
					Sight on	306+65	
306+65 S.	1 65	22 66		21 01		✓	N.&T.
14' L.			1 5	21 2		✓	Brk.
T.P.	0 00	13 07	9 59	13 07			1x2
55' L.			5 0	8 1		✓	Brk.
78' L.			5 8	7 3		✓	"
T.P.	0 00	6 52	6 55	6 52			1x2
			5 3	1 2	31° 41'	122 ✓	under water
			8 0	-1 5	34° 41'	140 ✓	"
			8 7	-2 2	42° 13'	183 ✓	" "
			10 2	-3 7	49° 08'	231 ✓	" "
			13 4	-6 7	55° 38'	298 ✓	" "
			14 6	-8 1	56° 54'	310 ✓	" "

Inshore
306+65 S.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes A. C. Johnson Date
Indexed

F. B. 1229 Pg. 9

MARCH 9 1953

SANTA MONICA PIER

TIME	GAGE
0600	3.7
0630	3.3
700	2.9
0730	2.5
0800	2.1
0830	1.6
0900	1.4
0930	0.9
1000	0.8
1030	0.7
1100	0.6
1130	0.6
1200	0.7
1230	0.9
1300	1.0
1330	1.3
1400	1.5

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76F3095 247 2-51

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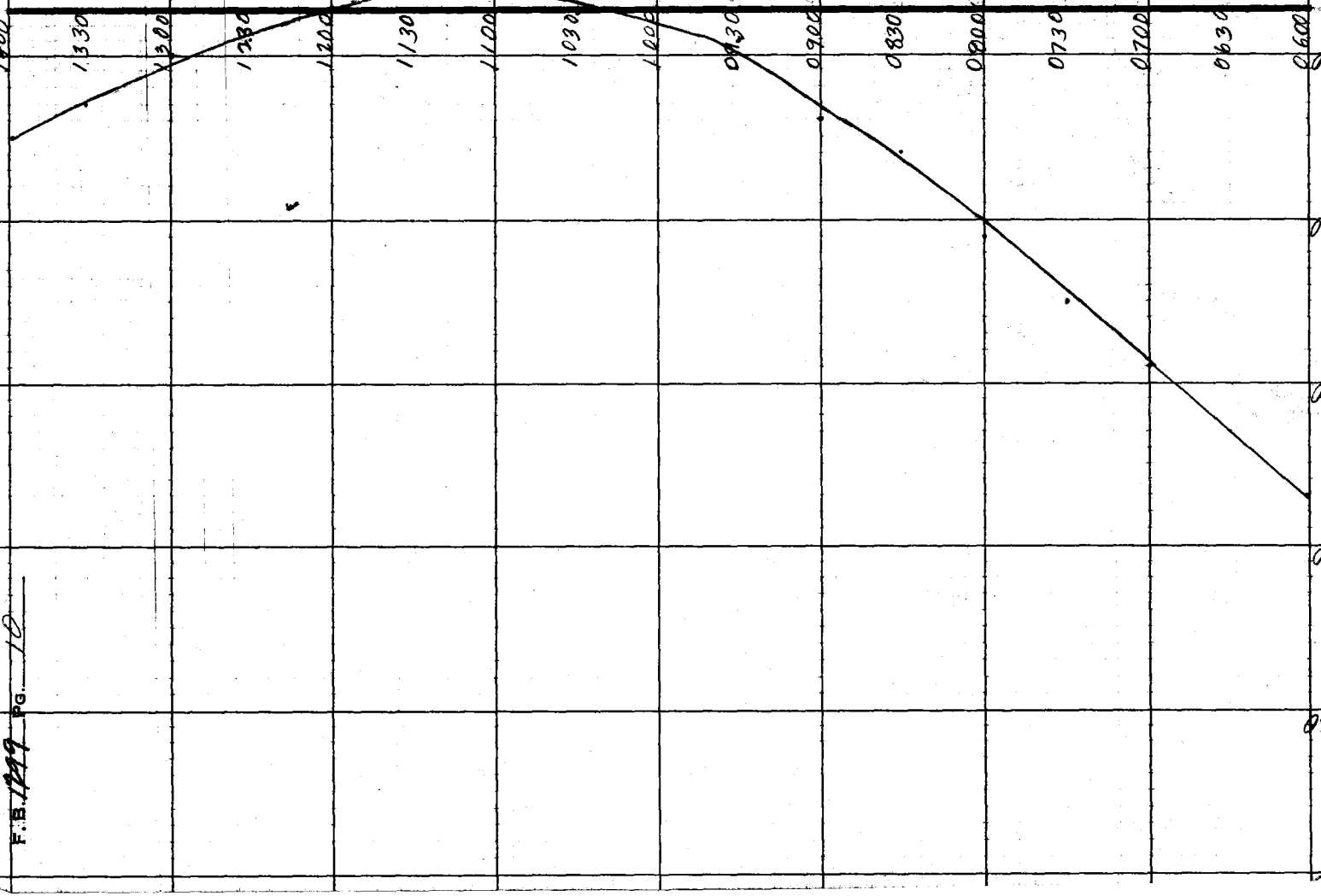

F.B. 1219 PG. 12

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F. B. 1292 Pg. 11
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd.____ Checked____ Survey by BLANCHARD Notes J.S. Date 3-9-53
No.____ Date____ Date____ Map No.____ Indexed [illegible] Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At / On		# Color	Time	Hor. Ang.		Remarks RANGE 306+65-S
306+65	S20 1	B+W	7:10	89° 43'	✓	
	2	R		90° 00'	✓	
	3	Y		90° 00'	✓	
	4	B+W	7:21	90° 00'	✓	
	5	R		90° 00'	✓	
	6	Y		90° 44'	✓	
	7	B+W	7:31	90° 00'	✓	
	8	R		90° 00'	✓	
	9	Y		90° 32'	✓	
	10	B+W	7:44	90° 00'	✓	
	11	R		89° 34'	✓	
	12	Y		90° 57'	✓	
	13	B+W	7:54	91° 18'	✓	
	14	R		90° 00'	✓	
	15	Y		90° 00'	✓	
	16	B+W	7:59	90° 00'	✓	
	17	R		90° 00	✓	
	18	Y		90° 36'	✓	
	19	B+W	8:01	90° 00'	✓	
	20	R		90° 00	✓	

RANGE 306+65S

76L298 307 4-50

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F. B. 12 99 Pg. 12 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by L. G. Johnson Notes Notes Chkd. Checked
Indexed Date 3-9-53 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 306+65-S
306+65	S-20	21	Y		90°00'	✓	
		22	B&W	8:04	90°00'	✓	
		23	R		90°00'	✓	
		24	Y		90°00'	✓	
		25	B&W	8:06	90°00'	✓	
		26	R		90°00'	✓	
		27	Y		90°00'	✓	
		28	B&W	8:08	90°00'	✓	
		29	R		90°00'	✓	
		30	Y		90°00'	✓	
		31	B&W	8:10	90°00'	✓	
		32	R		90°00'	✓	
		33	Y		90°22'	✓	
		34	B&W	8:12	90°00'	✓	
		35	R		90°00'	✓	
		36	Y		90°00'	✓	
		37	B&W	8:14	90°00'	✓	
		38	R		90°00'	✓	
		39	Y		90°00'	✓	
		40	B&W	8:17	90°00'	✓	

Range 306+65-S

76L298 307 4-50

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RANGE 306+65 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color		Time Hor. Ang.		Remarks
306+65 S-20	41	R		90°00	✓	
	42	Y		88°09	✓	
	43	B&W	8 20	90°00	✓	
	44	R		90°00	✓	
	45	Y		90°00	✓	
	46	B&W	8 23	90°00	✓	
	47	R		90°00	✓	
	48	Y		90°00	✓	
	49	B&W	8 25	91°28	✓	
	50	R		90°00	✓	

RANGE 306+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 13
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by Blanchard Notes FHB Date 3-9-53
No. Date Date Map No. Indexed Johnson Date

F. B. 1299 Pg. 14

Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

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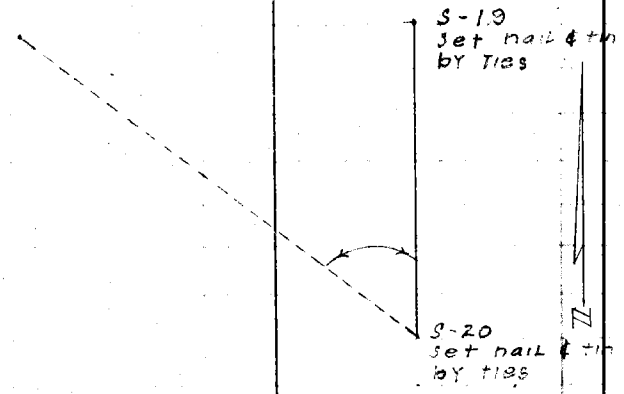
Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1292 Pg. 15
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Planchara Notes J.V. Date 3/9/53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At / On		# Color	Time	Hor. Ang.	
S-20	S-19	1 B & W	7 12	79°54'	Cut in 306+65
		2 R		78 33	
		3 Y		77 26	
		4 B & W	7 22	76 36	
		5 R		74 40	
		6 Y		72 14	
		7 B & W	7 33	70 52	
		8 R		68 34	
		9 Y		67 16	
		10 B & W	7 45	66 32	
		11 R	7 48	63 32	
		12 Y	7 51	60 32	
		13 B & W	7 55	59 14	
		14 R	7 58	58 53	
		15 Y		57 45	
		16 B & W	7 59	57 05	
		17 R		56 36	
		18 Y		55 47	
		19 B & W	8 01	55 23	
		20 R		55 09	



Cut in 306+65

76L298 307 4-50

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F. B. 1299 Pg. 16 | Job No. | Division No. | Notes Red. | Plotted | Profile | No.
Survey of | Date | Date | No.
Survey by | Notes | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-20	S-19	21	Y		54° 19"	✓	Cut in 306+65
		22	B & W	8:05	52 02	✓	
		23	R		51 20	✓	
		24	Y		51 05	✓	
		25	B & W	8 07	50 35	✓	
		26	R		50 14	✓	
		27	Y		49 51	✓	
		28	B & W	8 09	49 27	✓	
		29	R		48 50	✓	
		30	Y		48 32	✓	
		31	B & W	8 11	47 56	✓	
		32	R		47 32	✓	
		33	Y		47 14	✓	
		34	B & W	8 13	46 58	✓	
		35	R		46 36	✓	
		36	Y		46 13	✓	
		37	B & W	8 15	45 59	✓	
		38	R		45 37	✓	
		39	Y		45 17	✓	
		40	B & W	8 18	39 2	✓	

Cut in 306+65

76L298 307 4-50

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Profile Notes Red. ____ Plotted ____ Job No. 4412 Division No. ____
No. ____ Date ____ Date ____ Survey of Geotechnical Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Engineers Notes F.B. Date 2-9-53
No. ____ Date ____ Date ____ Map No. ____ Inked ____ Date ____

F. B. 298 Pg. 17

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	# Color	Time	Hor. Ang.		
5-20	5-19	41 R		37° 31'	✓	Cut in 306+65
		42 Y		36 59	✓	
		43 B&W	8:21	35 34	✓	
		44 R		33 15	✓	
		45 Y		32 33	✓	
		46 B&W	8 24	30 54	✓	
		47 R		29 59	✓	
		48 Y		28 57	✓	
		49 B&W	8 26	27 06	✓	
		50 R		26 18	✓	

Cut to 306+65 S

F. B. 1299 Pg. 18 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No. | X-Sec.

Survey by | Notes | Notes Chkd. | Checked

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	

76L298 307 4-50

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76L298 3M7 4-50

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NOTE: CHECK 30674 65

STATION	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Bottom Tide	Adj. Depth	Distance	Remarks
1	BW	711	112.6 / 112.0	112.2	2.7	109.5	2940	CHARD - LEAD
2	R		150.0 / 148.5 / 210.8	149.0	2.7	146.3	2660	RSON - MOTOR
3	Y		210.0 / 213.0	210.3	2.7	207.6	2420	GELAND - NOTES
4	BW	721	212.0 / 193.8	212.3	2.6	209.7	2263	10 FT
5	R		197.8	193.1	2.6	190.5	1967	
6	Y		184.2 / 185.0 / 164.8	183.4	2.5	180.9	1768	
7	BW	732	164.0	164.3	2.4	161.9	1551	
8	R		155.4 / 153.8	154.3	2.4	151.9	1378	
9	Y		142.8 / 142.6 / 135.5	142.3	2.3	140.0	1314	
10	BW	744	134.0 / 128.2	134.5	2.2	132.3	1240	
11	R		124.4 / 109.5	124.7	2.2	122.5	1063	
12	Y		108.5	108.8	2.1	106.7	986	
13	BW	754	95.5 / 94.4	94.8	2.1	92.7	9580	50 FT
14	R		85.6	85.4	2.1	83.3	8950	FT
15	Y		78.2 / 77.0 / 73.0	77.4	2.0	75.4	858	
16	BW	759	72.3	72.3	2.0	70.3	836	
17	R		68.3 / 67.0	67.4		65.4	820	
18	Y		62.1 / 61.0	61.8		59.8	806	
19	BW	801	59.4 / 57.5	57.5	2.0	55.5	787	
20	R		55.0 / 54.3	54.7		52.7	769	

Boat 30665

Boat No. ____ Date 4-1-53 Plotted ____ Job No. 8416
Boat No. ____ Date ____ Survey of Beach Entrance Channel
Z-Sec. Notes Chkd. KRK Checked ____ Survey by F.M.A. Scale 1" = 200'
Boat No. ____ Date 4-22-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 306+65

~BOAT~

STATION #	Color	S. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y		50.8 / 50.2	50.4	1.9	48.5	758	RDER
22	BW	8:04	48.2 / 47.1	47.4	1.9	45.5	690	
23	R		46.4 / 45.5	45.8		43.9	676	
24	Y		41.8 / 41.0	41.3		39.4	670	ARD
25	BW	8:06	39.8 / 39.0	39.3	1.9	37.4	658	
26	R		36.6 / 36.0	36.2		34.3	650	
27	Y		34.6 / 33.5	33.9		32.0	634	
28	BW	8:08	33.2 / 32.0	32.4	1.9	30.5	632	
29	R		31.1 / 30.0	30.4		28.5	612	
30	Y		29.4 / 29.0	29.1		27.2	601	
31	BW	8:10	28.0 / 27.0	27.3	1.9	25.4	588	
32	R		26.8 / 26.0	26.3		24.4	572	
33	Y		26.0 / 24.0	24.7		22.8	567	
34	B.W	8:12	24.8 / 23.8	24.1	1.8	22.3	551	
35	R		23.8 / 22.8	23.1		21.3	529	
36	Y		21.8 / 20.8	21.1		19.3	519	
37	BW	8:14	20.5 / 19.5	19.8	1.8	18.0	492	
38	R		19.8 / 18.0	18.6		16.8	480	
39	Y		18.1 / 17.0	17.4		15.6	451	
40	BW	8:17	17.5 / 16.0	16.5	1.8	14.7	441	

Boat 306+65

STA 306+65
BOAT
PG 2 OF 3

CONT'D SEE NXT PG

F. B. 1249 PG. 20 Job No. 8412 Division No. V Notes Red. Pauw Plotted Date 4-9-53 Checked Date 4-22-53 Profile No. X-Sec. No.
Survey of BEACH EROSION STUDY Notes A.C.S.
Survey by E.H.B. Date
Indexed R. O. Johnson

76L298 307 4-50

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Do not extend notes this side of this line. 306+65 (CONT'D)

STATION		B. S.	H. I.	F. S.	ELEV.			~BOAT~
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
41	R		16.1 15.0	15.4	1.8	13.6	446	HARD LEAD (CONT'D)
42	Y		15.2 14.0	14.4		12.6	399	SON - MOTOR
43	BW	8:20	14.1 13.0	13.4	1.8	11.6	388	ELAND NOTES
44	R		13.0 12.0	12.3	1.8	10.5	356	ARD BOTTOM (CONT'D)
45	Y		11.5 11.0	11.2	1.7	9.5	347	✓
46	BW	8:23	10.8 10.0	10.3	1.7	8.6	338	✓
41	R		9.8 9.0	9.3		7.6	312	✓
42	Y		9.0 8.0	8.3		6.6	299	✓
43	BW	8:26	8.2 7.0	7.4	1.7	5.7	278	✓
44	R		7.2 6.2	6.5		4.8	269	✓
45	Y							
46	BW							

BOAT 306+65 S

Profile Notes Red. LAWL Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 21
No. ____ Date 4-3-53 Date ____ Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. KRK Checked ____ Survey by F.H.B. Notes A.C.S. Date 3-9-53
No. ____ Date 4-22-53 Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1299 Pg. 22

Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed M. C. Johnson Date Date Date No.

761.298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
# Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 Pg. 23

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. [illegible] Checked _____ Survey by English Notes English Date 3-9-53

Date 4-23-53 Date _____ Map No. _____ Indexed X C Johnson Date _____

Inshore
302+15 S.

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in ∡ Inst. at S-19 Sight on 302+15	
302+15 S.	6 63	12 83		6 20?		1X2
17' R.			5 1	7 7		Brk.
45' R.			0 8	12 0		"
20' L.			7 9	4 9		"
T.P.	0 80	5 69	7 94	4 89		1x2
			6 1	-0 4	10°09' 70	under water
			6 6	-0 9	15°17' 110	" "
			9 0	-3 3	20°23' 152	" "
			15 2	-9 5	31°17' 269	" "

76L298 307 10-51

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at	S-19	
					Sight on	301+86	
301+86 S.	5 68	12 88		7 20	?	✓.	1X2
13' R.			5 4	7 5		✓.	Brk.
36' R.			2 0	10 9		✓.	"
10' L.			5 8	7 1		✓.	"
30' L.			7 8	5 1		✓.	"
T.P.	0 25	5 33	7 80	5 08			1X2
			5 2	0 1	9° 03'	68 ✓.	under water
			6 8	-1 5	12° 57'	100 ✓.	" "
			8 6	-3 3	18° 49'	150 ✓.	" "
			9 6	-4 3	21° 48'	180 ✓.	" "
			11 3	-6 0	25° 20'	218 ✓.	" "
			13 3	-8 0	27° 44'	243 ✓.	" "
			15 3	-10 0	30° 13'	278 ✓.	" "

Inshore
301+86 S.

F.B. 1299 PG. 24 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed R. C. Johnson Date Date 4-23-53 Date No.

76L298 307 4-50

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RANGE 302+15

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color		Time Hor. Ang.		Remarks
302+15S	S-19	1 B&W	8 41	104°21	✓	
		2 R		104°21	✓	
		3 Y		104°21	✓	
		4 B&W	8 44	104°21	✓	
		5 R		104°21	✓	
		6 Y		104°21	✓	
		7 B&W	8 48	104°21	✓	
		8 R		104°21	✓	
		9 Y		104°21	✓	
		10 B&W	8 52	104°21	✓	
		11 R		104°21	✓	
		12 Y		104 21	✓	
		13 B&W	8 55	104 21	✓	
		14 R		104 21	✓	
		15 Y		104 21	✓	
		16 B&W	8 57	104 21	✓	
		17 R		104 21	✓	
		18 Y		104 21	✓	
		19 B&W	8 59	104 21	✓	
		20 R		104 21	✓	

RANGE 302+15

Profile Notes Red. ✓ Plotted Job No. 8442 Division No.
No. Date Date Survey of BEACH EROSION STUDIES F. B. 12299 Pg. 25
X-Sec. Notes Chkd Checked Survey by FHB Notes FHB Date 5-9-53
No. Date Date Map No. Date

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RANGE 302+15

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
302+15	S-19	21	Y		104° 27	✓	
		22	B&W	9 01	104° 27	✓	
		23	R		104° 27	✓	
		24	Y		104° 27	✓	
		25	B&W	9 03	104° 27	✓	
		26	R		104° 27	✓	
		27	Y		104° 27	✓	
		28	B&W	9 04	104° 27	✓	
		29	R		104° 27	✓	
		30	Y		104° 27	✓	
		31	B&W	9 07	104° 27	✓	
		32	R		104° 27	✓	
		33	Y		104° 27	✓	
		34	B&W	9 12	104° 27	✓	
		35	R		104° 27	✓	
		36	Y		104° 27	✓	
		37	B&W	9 16	104° 27	✓	
		38	R		104° 27	✓	
		39	Y		104° 27	✓	
		40	B&W	9 19	104° 27	✓	

Range 302+15 S

F. B. 12 99 Pg. 26 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by Blanchard Notes EHB Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

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Profile Notes Red. Plotted. Job No. 8412 Division No. V F. B. 1299 Pg. 27
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Stanley Notes RG Date 3-9-53
No. Date Date Map No. Indexed Date

STATION At	B. S. On	H. I. #	Color	F. S.	ELEV.	Time Hor. Ang.		Remarks
	Inst. Sight							
S-20	S-19	1	B&W	8 42	49° 09'	✓	Cut in 302 + 65	
		2	R		48° 39'	✓		
		3	Y		47° 55'	✓	S-19 Set NET by Ties	
		4	B&W	8 45	47° 09'	✓		
		5	R		46° 25'	✓		
		6	Y		45° 20'	✓		
		7	B&W	8 48	44° 20'	✓		
		8	R		43° 49'	✓	angle on this side	
		9	Y		43° 17'	✓		
		10	B&W	8 53	42° 32'	✓		
		11	R		41° 59'	✓		
		12	Y		41° 04'	✓		
		13	B&W	8 56	40° 45'	✓		
		14	R		39° 54'	✓		
		15	Y		39° 20'	✓		
		16	B&W	8 58	38° 42'	✓		
		17	R		38° 26'	✓	S-20 Set NET by Ties	
		18	Y		37° 49'	✓		
		19	B&W	8 59	38° 00'	✓		
		20	R		37° 08'	✓		

Cut in 302 + 65

F. B. 1299 Pg. 28 | Job No. | Division No. | Notes Red. | Flotted | No. | Profile
Survey of | Date | Date | No. | X-Sec.
Survey by M. C. Johnson | Notes | Notes Chkd. | Checked
Indexed | Date | Date | Date | No.

75L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
5-20	5-19	21	Y		37° 20'	✓	Cut in	302 + 45
		22	B&W	902	36° 40'	✓		
		23	R		36° 35'	✓		
		24	Y		35° 21'	✓		
		25	B&W	904	34° 54'	✓		
		26	R		34° 39'	✓		
		27	Y		34° 05'	✓		
		28	B&W	905	33° 36'	✓		
		29	R		32° 49'	✓		
		30	Y		32° 13'	✓		
		31	B&W	908	31° 09'	✓		
		32	R		30° 23'	✓		
		33	Y		29° 31'	✓		
		34	B&W	913	28° 22'	✓		
		35	R		27° 24'	✓		
		36	Y		25° 57'	✓		
		37	B&W	917	25° 09'	✓		
		38	R		24° 15'	✓		
		39	Y		23° 14'	✓		
Cut In 302+45		40	B&W	920	21° 38'	✓		

76L298 387 4-50

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Do not extend notes this side of this line. RANGE 302+15

~BOAT~

Profile Notes Rod. ZOLLY Plotted Job No. 24V Division No. F.B. 1209 Pg. 29
No. Date 4-3-52 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. KRK Checked Survey by Blanchard Notes E.H.B. Date 8-4-52
No. Date 4-22-52 Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	Meas'd Depth	Bottom Tide	Adj. Depth	Distance	Remarks
#	Color	Time							
1	B&W	8 41	83.0 82.0	82.3		1.5	80.8	790	Semi hard bot. HARD - NOTES
2	R		81.2 80.2	80.5			79.0	777	LAND - LEAD
3	Y		78.8 77.9	78.2			76.7	753	ERSON - MOTOR
4	B&W	8 44	76.0 75.0	75.3		1.5	73.8	736	
5	R		74.1 72.8	73.2			71.7	719	
6	Y		70.1 69.0	69.4			67.9	690	
7	B&W	8 48	65.4 63.8	64.3		1.4	62.9	664	hard b.o.t
8	R		63.7 61.8	62.4			61.0	652	
9	Y		61.0 60.0	60.4			59.0	638	
10	B&W	8 52	58.0 57.0	57.4		1.4	56.0	621	
11	R		56.1 55.2	55.7			54.3	610	
12	Y		54.5 52.8	53.4			52.0	589	
13	B&W	8 55	52.0 51.0	51.3		1.4	49.9	580	
14	R		49.3 48.2	48.6			47.2	563	
15	Y		47.3 46.2	46.6			45.2	550	
16	B&W	8 57	45.1 44.2	44.5		1.3	43.2	537	
17	R		42.2 41.2	41.6			40.3	530	
18	Y		39.7 38.7	39.1			37.8	518	
19	B&W	8 59	38.0 36.9	37.3		1.3	36.0	520	
20	R		33.7 32.9	33.2			32.6	502	

Blanchard
Stanbridge
Anderson

Boat 302+15

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.			
Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21 Y		32.8 / 31.9	32.2	1.3	30.9	500 ✓	+ 302+15
22 B&W	901	31.1 / 30.0	30.4	13	29.1	492 ✓	
23 R		29.1 / 28.2	28.5		27.2	481 ✓	
24 Y		27.6 / 26.7	27.0		25.7	466 ✓	
25 B&W	903	26.1 / 25.0	25.4	13	24.1	458 ✓	
26 R		24.9 / 24.0	24.3		23.0	450 ✓	
27 Y		23.8 / 22.9	23.2		21.9	441 ✓	
28 B&W	905	23.3 / 21.0	21.8	12	20.6	431 ✓	
29 R		21.6 / 20.0	20.5		19.3	418 ✓	
30 Y		20.1 / 18.7	19.2		18.0	402 ✓	
31 B&W	907	18.6 / 17.7	18.0	12	16.8	382 ✓	
32 R		17.6 / 16.3	16.7		15.5	370 ✓	
33 Y		16.8 / 15.0	15.6		14.4	351 ✓	
34 B&W	912	15.0 / 13.9	14.3	12	13.1	328 ✓	
35 R		13.4 / 12.1	13.2		12.0	314 ✓	
36 Y		12.2 / 11.2	11.5		10.3	288 ✓	
37 B&W	916	11.4 / 10.1	10.5	12	9.3	273 ✓	
38 R		10.3 / 8.9	9.4		8.2	257 ✓	
39 Y		8.5 / 7.7	8.0		6.8	238 ✓	
40 B&W	919	7.0 / 5.9	6.3	11	5.2	211 ✓	

Boat 302+153

F. B. 1299 Pg. 30 Job No. 8412 Division No. Notes Red. LMW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date No.
Survey by Blanchard Notes FHB Notes Chkd. KRK Checked X-Sec.
Indexed Date Date 4-22-53 Date No.

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed A. C. Johnson

F. B. 1209 Pg. 31

FEB. 26 1953

SANTA MONICA PIER

TIME	GAGE
0600	5.2
0630	5.5
0700	5.7
0730	5.9
0800	5.8
0830	5.5
0900	5.9
0930	4.8
1000	4.3
1030	3.7
1100	3.0
1130	2.1
1200	1.4
1230	0.9
1300	0.5
1330	0.2
1400	-0.2
1430	-0.2

Feb 26 1953

TIME GAUGE

Note: Any Additions or Changes of This Sheet Must be Made as Circled in Red Ink With Date and Name of Person Making Change.

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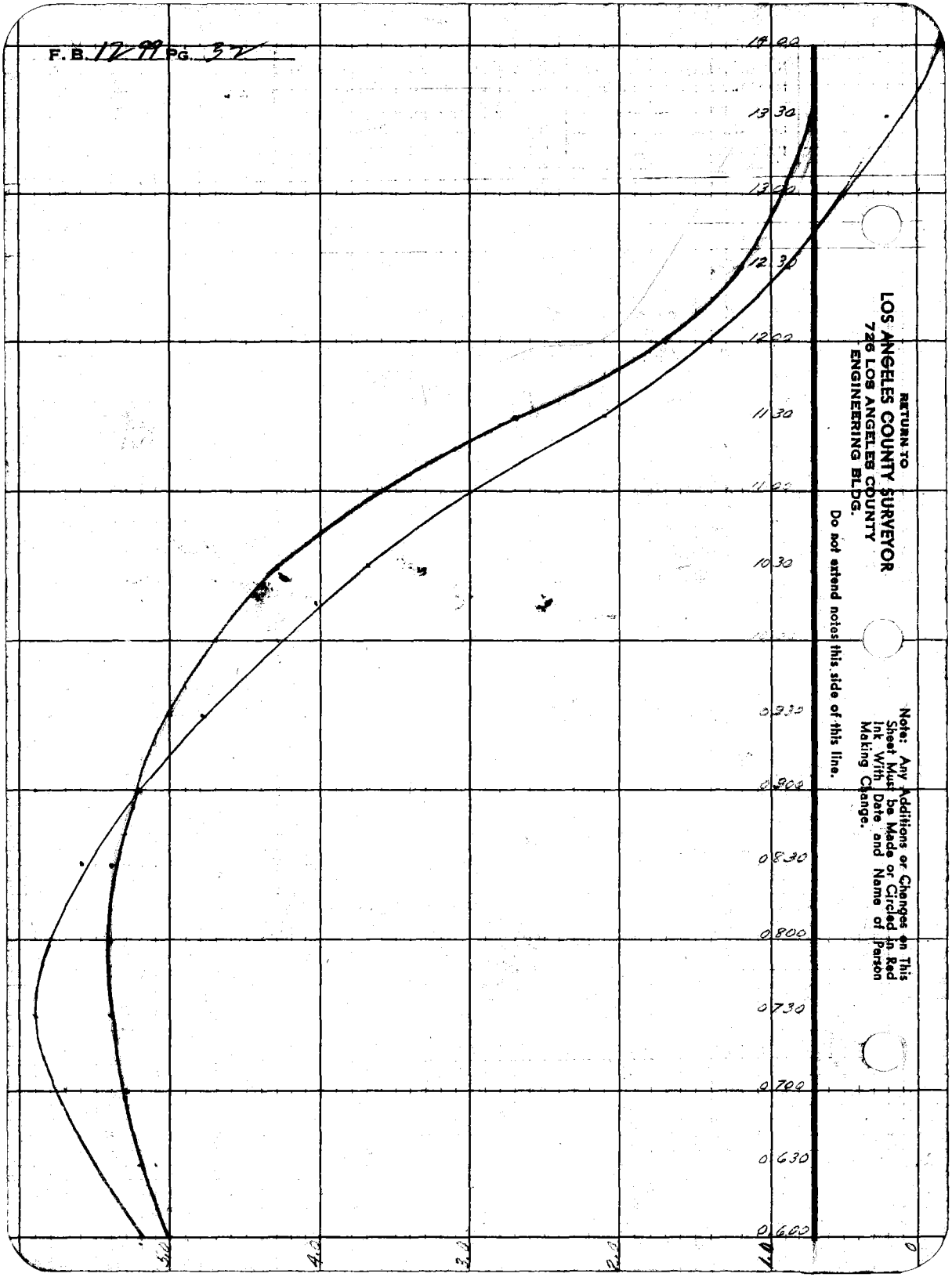
78F9095 247 2-51

F.B. 1299 PG. 32



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Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 Pg. 33

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd LCW. Checked _____ Survey by English Notes English Date 2-26-53

Date 4-23-53 Date _____ Map No. _____ Indexed A. C. Johnson Date _____

Inshore
300+57 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
300+57	0 35	20 51		20 16	N&T
3' L.			8 8	11 7	Brk. - rocks
10' L.			5 5	15 0	Top "
T.P.	0 00	15 01	5 50	15 01	
34' L.			13 3	1 7	Sand - Bot. "

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F.B. 1298 PG 34 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by English | Notes English | Notes Chkd. LWE | Checked | X-Sec.

Indexed R. C. Johnson | Date | Date 1-23-53 | Date | No.

76L298 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.	
298+65 S.	0 30	20 46		20 16	
4' L.			4 7	15 81	
13' L.			5 5	15 01	
T.P.	3 00	12 46	11 00	9 46	
39' L.			1 2	1 34	
					MHT Top rocks " "
					Bot. "

Inshore
298+65 S.

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 3412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES F. B. 1299 Pg. 35
X-Sec. Notes Chkd. Checked Survey by EHB Notes Date 2-26-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		RANGE 300+57
300+57 / 300+57	1	B+W	7:28	80°31	✓	this range was moved N. 8' to miss construction on horseshoe pier and transit occupied a point on horseshoe pier and kept boot on range line.
	2	R	7:30	" "	✓	
	3	Y	7:33	" "	✓	
	4	B+W	7:35	" "	✓	
	5	R	7:38	" "	✓	
	6	Y	7:42	80°31	✓	
	7	B+W	7:45	" "	✓	
	8	R	7:47	" "	✓	
	9	Y	7:50	" "	✓	
	10	B+W	7:54	" "	✓	
	11	R	7:55	80°31	✓	
	12	Y	7:57	" "	✓	
	13	B+W	8:00	" "	✓	
	14	R	8:02	" "	✓	
	15	Y	8:04	" "	✓	
	16	B+W	8:08	80°31	✓	
	17	R	8:10	" "	✓	
	18	Y	8:12	" "	✓	
	19	B+W	8:14	" "	✓	
	20	R	8:16	" "	✓	

RANGE 300+57 S

76L298 307 4-50

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F. B. 1299 Pg. 36 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH & EROSION STUDIES | Date | Date | No.
Survey by EHB | Notes | Notes Chkd. | Checked | X-Sec.
Indexed A. C. Tabasco | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At / On	#	Color	Time	Hor. Ang.		Remarks RANGE 300+57
300+57 / 300+57	21	Y	8:17	80° 31'	✓	
	22	B+W	8:20	" "	✓	
	23	R	8:24	" "	✓	
	24	Y	8:25	" "	✓	
	25	B+W	8:27	" "	✓	
	26	R	8:29	80° 31'	✓	
	27	Y	8:31	" "	✓	
	28	B+W	8:33	" "	✓	
	29	R	8:34	" "	✓	
	30	Y	8:35	" "	✓	
Range 300 Ftn	31	B+W	8:36	80° 31'	✓	
	32	R	8:38	" "	✓	
	33	Y	8:40	" "	✓	
	34	B+W	8:41	" "	✓	
	35	R	8:42	" "	✓	
	36	Y	8:43	80° 31'	✓	
	37	B+W	8:44	" "	✓	
	38	R	8:45	" "	✓	
	39	Y	8:46	" "	✓	
	40	B+W	8:48	" "	✓	

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Profile Notes Red. Plotted Job No. 842 Division No. F. B. 1233 Pg. 37
No. Date. Date. Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes Date 2-26-52
No. Date. Date. Map No. Indexed Date.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 300+57
300+57	300+57	41	R	8:48	80°31	✓	
		42	Y	8:49	" "	✓	
		43	B+W	8:51	" "		
		44	R	8:52	" "	✓	
		45	Y	8:53	" "	✓	
		46	B+W	8:55	80°31	✓	
		47	R	9:04	" "	✓	
		48	Y	9:06	" "	✓	
		49	B+W	9:07	" "	✓	
		50	R	9:08	" "	✓	
		51	Y	909	80°31	✓	
		52	B+W	9:09	" "	✓	
		53	R		" "	✓	
		54	Y		" "	✓	
		55	B+W	9:11	" "	✓	
		56	R		80°31	✓	
		57	Y		" "	✓	
		58	B+W	9:13	" "	✓	
		59	R		" "	✓	
		60	Y		" "	✓	

RANGE 300+57 S

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 300+57
300+57	300+57	61	B+W	9:17	80° 31	✓	
		62	R		" "	✓	
		63	Y		" "	✓	
		64	B+W	9:24	" "	✓	
		65	R		" "	✓	
		66	Y		80° 31	✓	
		67	B+W	9:28	" "		
		68	R		" "		
		69	Y				

Range 300+57

F. B. 1299 PG. 38
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-15	S-16	1	B&W	7 28	52° 28'	✓	Cut in 300+57
		2	R	7 29	52° 10'	✓	
		3	Y	7 32	51° 43'	✓	
		4	B&W	7 35	51° 01'	✓	
		5	R	7 38	50° 06'	✓	
		6	Y	7 42	48° 58'	✓	
		7	B&W	7 45	48° 00'	✓	
		8	R	7 47	47° 16'	✓	
		9	Y	7 50	46° 42'	✓	
		10	B&W	7 54	46° 22'	✓	
		11	R	7 55	45° 00'	✓	
		12	Y	7 58	44° 16'	✓	
		13	B&W	8 00	44° 04'	✓	
		14	R	8 02	43° 13'	✓	
		15	Y	8 05	43° 11'	✓	
		16	B&W	8 08	42° 28'	✓	
		17	R	8 10	41° 31'	✓	
		18	Y	8 12	40° 33'	✓	
		19	B&W	8 14	39° 47'	✓	
		20	R	8 16	38° 27'	✓	

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 39
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Cut in 300+57

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-15	S-16	21	Y	8 18	37° 33'	✓	Cut in 300+57
		22	B&W	8 20	37° 09'	✓	
		23	R	8 24	36° 47'	✓	
		24	Y	8 25	35° 30'	✓	
		25	B&W	8 27	34° 26'	✓	
		26	R	8 29	32° 33'	✓	
		27	Y	8 31	33° 07'	✓	
		28	B&W	8 33	32° 18'	✓	
		29	R	8 34	31° 38'	✓	
		30	Y	8 35	30° 30'	✓	
		31	B&W	8 36	29° 55'	✓	
		32	R	8 38	29° 55'	✓	
		33	Y	8 40	29° [illegible]'	✓	
		34	B&W	8 41	28° [illegible]'	✓	
		35	R	8 42	27° 09'	✓	
		36	Y	8 43	26° [illegible]'	✓	
		37	B&W	8 44	26° [illegible]'	✓	
		38	R	8 45	25° [illegible]'	✓	
		39	Y	8 46	24° 55'	✓	
		40	B&W	8 48	24° 00'	✓	

Cut In 300+57

F. B. 1299 Pg. 40 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
S-15	S-16	41	R	8 49	23° 19'	✓	Cut in
		42	Y	8 50	22° 30'	✓	
5ª OFF S-16	5ª OFF S-15	43	B & W				for point occupied from here
		44	R	8 52	148° 15'	✓	on see sketch on next page.
		45	Y	8 53	150° 30'	✓	
		46	B & W	8 55	154° 28'	✓	
		47	R	9 04	151° 02'	✓	
		48	Y	9 07	151° 31'	✓	
		49	B & W	9 07	152° 11'	✓	
		50	R	9 08	152° 18'	✓	
		51	Y	9 08	152° 51'	✓	
		52	B & W	9 09	153° 28'	✓	
		53	R	9 09	153° 50'	✓	
		54	Y	9 10	154° 33'	✓	
		55	B & W	9 11	156° 04'	✓	
		56	R	9 12	157° 25'	✓	
		57	Y	9 13	158° 21'	✓	
		58	B & W	9 13	159° 46'	✓	
		59	R	9 14	160° 37'	✓	
		60	Y	9 16	164° 38'	✓	

Cut in 300+57 S

Profile Notes Red. ____ Plotted ____ Job No. 6412 Division No. ____ F. B. 1299 Pg. 41
No. ____ Date ____ Date ____ Survey of BEACH BROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

761298 307 4-50

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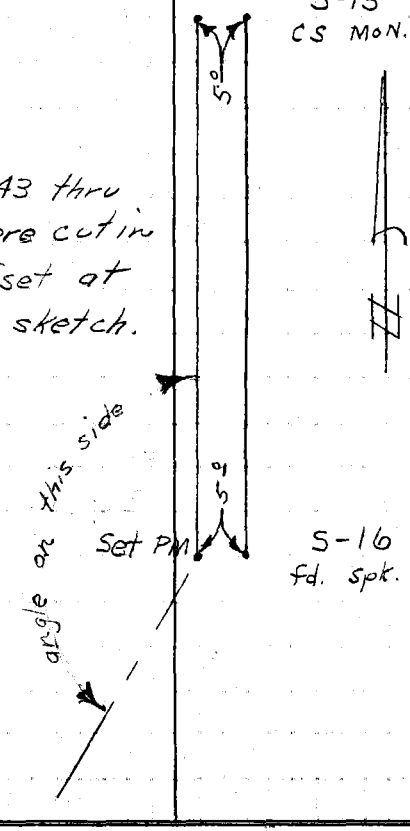
STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
5° OFF S-16	5° OFF S-15	6 1	B&W	9 17	166° 21'	✓	Cut in
		6 2	R	9 19	168° 44'	✓	
		6 3	Y	9 22	170° 34'	✓	
		6 4	B&W	9 24	173° 24'	✓	
		6 5	R	9 26	175° 30'	✓	Note
		6 6	Y	9 27	177° 47'	✓	Shot No. 43 thru
		6 7	B&W	9 28	181° 15'	✓	Shot 69 were cut in
		6 8	R	9 29	184° 15'	✓	from 5' offset at
		6 9	Y	9 30	185° 24'	✓	S-16 see sketch.

Cut in 300+[illegible]



F. B. 1299 Pg. 42 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked No.
Indexed A. O. Johnson Date Date Date

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BOAT

Do not extend notes this side of this line. 300+57S RANGE

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	7 28	2323 2307	231.2	59	225.3	2506	STANGELANG - LEAD
2	R		2318 2305	230.9		225.0	2466	KVAMMEN - RECORD
3	Y		2280 2270	227.3		221.4	2412	✓
4	BW	7 35	2227 2219	222.2	59	216.3	2320	✓
5	R		2144 2137	213.9		208.0	2212	✓
6	Y		2087 2073	207.8		201.9	2092	✓ Bottom appears very
7	BW	7 45	2038 2022	202.7	59	196.8	2000	✓ soft
8	R		1990 1977	198.1		192.2	1924	✓
9	Y		1950 1940	194.3		188.4	1871	✓
10	BW	7 54	1938 1922	192.7	58	186.9	1848	✓
11	R		1890 1881	188.4		182.6	1735	✓
12	Y		1791 1780	178.4		172.6	1676	✓
13	BW	8 00	1730 1717	172.1	58	166.3	1663	✓
14	R		1662 1652	165.5		159.7	1602	✓
15	Y		1651 1640	164.4		158.6	1597	✓
16	BW	8 08	1610 1601	160.4	57	154.7	1550	✓
17	R		1579 1568	157.2		151.5	1484	✓
18	Y		1535 1520	152.5		146.8	1420	✓
19	BW	8 14	1512 1495	150.1	57	144.4	1378	✓
20	R		1468 1457	146.1		140.4	[illegible]	✓

Boat 300+57 S

Profile No. ____ Notes Red. PAW Plotted ____ Job No. 8412 Division No. ____ F. S. 1299 Pg. 93
Date 4-6-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 3-26-53
Date 4-22-53 Date ____ Map No. ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 300+57 continued

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y		1388 1379	138.2	57	132.5	1254	✓
22	BW	8 20	1367 1351	135.6	56	130.0	1237	✓
23	R		1314 1303	130.7		125.1	1212	✓
24	Y		1274 1260	126.5		120.9	1150	✓
25	BW	8 27	1212 1201	120.5	56	114.9	1100	✓
26	R		1189 1169	117.3		111.7	1060	✓
27	Y		1128 1119	112.2		106.6	1040	Bottom appears
28	BW	8 33	1098 1089	109.2	55	103.7	1009	more solid
29	R		1077 1068	107.1		101.6	980	✓
30	Y		1038 1030	103.3		97.8	932	✓
31	BW	8 36	998 988	99.1	55	93.6	910	✓
32	R		998 988	99.1		93.6	910	✓
33	Y		952 942	94.5		89.0	880	✓
34	BW	8 41	964 964	90.6	54	85.2	850	✓
35	R		875 865	86.8		81.4	810	✓
36	Y		849 839	84.2		78.8	786	✓
37	BW	8 44	827 817	82.0	54	76.6	780	✓
38	R		799 777	781 ~~77.7~~		72.7	750	✓
39	Y		745 728	74.0		68.6	730	✓
40	BW	8 48	712 700	70.4	5.3 43	65.1	700	✓

Boat 300+57

F. B. 12 79 44 Pg.
Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date 4-6-53 Date No.
Survey by FHB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed L. C. Johnson Date 4-22-53 Date No.
Profile

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Do not extend notes this side of this line. 300+57 Cont

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
41	R		676 664	66.8	53	61.5	680	
42	Y		641 630	63.4		58.2	654	
43	BW	8 51	602 591	59.5	53	54.2		
44	R		541 535	53.7		48.4	610	much more solid
45	Y		498 490	49.3		44.0	557	[illegible] on bottom.
46	BW	8 55	316 308	31.1	53	25.8	474	note tremendous
47	R		460 458	45.9	53	40.6	542	climb
48	Y		431 424	42.6	52	37.4	531	ANDERSON - LEAD
49	BW	9 07	405 395	39.8	51	34.7	519	
50	R		376 366	36.9		31.8	517	
51	Y		361 351	35.4		30.3	506	
52	BW	9 09	343 333	33.6	50	28.6	493	
53	R		325 318	32.0		27.0	488	
54	Y		296	30.1		25.1	472	
55	BW	9 11	286 274	27.8	50	22.8	444	
56	R		265 258	26.0		21.0	420	
57	Y		244 238	24.2		19.2	402	
58	BW	9 13	229 220	22.3	50	17.3	397	
59	R		217 203	20.8		15.8	366	
60	Y		182 170	17.4		12.4	301	

Boat 300+57 S

Profile Notes Red. Rcw Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 45
No. ____ Date 4-6-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by FAB Notes KRK Date 2-26-53
No. ____ Date 4-22-53 Date ____ Map No. ____ Indexed ____ Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
61	BW	9 17	168 156	16.0	4 9	11.1	274	✓
62	R		135 133	13.4		8.5	242	✓
63	Y		113 104	11.7		6.8	217	✓
64	BW	9 24	94 108	9.7	4 8	4.9	180	✓
65	R		90 87	9.6		4.8	150	✓
66	Y		78 70	8.2		3.4	123	✓
67	BW	9 28	55 63	6.0	4 8	1.2	82	✓
68	R		50 40	5.4		-0.6	46	✓
69	Y		30	3.3		+1.5	33	✓
70	BW							

Road 306 157 S

F. B. 1299 Pg. 46 Job No. 8412 Division No. ____ Notes Red. RCWC Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 4-6-53 Date ____ No. ____
Survey by FHB Notes KRF Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed E. G. Johnson Date ____ Date 4-22-53 Date ____ No. ____

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 298+65
298+65	298+65	1	B+W	10:18	80° 31		Transit occupied
		2	R		" "		a point on horse-
		3	Y		" "		shoe pier which is
		4	B+W	10:24	" "		on said range line
		5	R		" "		
		6	Y		" "		
		7	B+W	10:31	" "		
		8	R		80° 31		
		9	Y		" "		
		10	B+W	10:39	" "		
		11	R		" "		
		12	Y		" "		
		13	B+W	10:44	" "		
		14	R		80° 31		
		15	Y		" "		
		16	B+W	10:50	" "		
		17	R		" "		
		18	Y		" "		
		19	B+W	10:55	" "		
		20	R		" "		

RANGE 298+65 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 47
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 298+65
298+65	298+65	21	Y		80°31		
		22	B+W	11:01	" "		
		23	R		" "		
		24	Y		" "		
		25	B+W	11:08	" "		
		26	R		80°31		
		27	Y		" "		
		28	B+W	11:13	" "		
		29	R		" "		
		30	Y		" "		
		31	B+W	11:18	" "		
		32	R		" "		
		33	Y		80°31		
		34	B+W	11:22	" "		
		35	R		" "		
		36	Y		" "		
		37	B+W	11:26	" "		
		38	R		" "		
		39	Y		" "		
		40	B+W	11:32	" "		

Range 298+65 S

F. B. 1299 Pg. 48 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BENCH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed A. O. Jennett Date Date Date No.

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Profile Notes Red. Plotted Job No. 8417 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by EHB Notes KRK Date 2-26-52
No. Date Date Map No. Checked Date

F. B. 1299 Pg. 49

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight						
At	On	# Color	Time	Hor. Ang.		Remarks
298+65	298+65	41 R		80°31	RANGE	298+65
		42 Y		"		
		43 BW	11 35	"		
		44 R		"		
		45 Y		"		
		46 BW	11 37	"		

RANGE 298+65 - S

F. B. 1299 PG. 50

Job No. _____ Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of _____ Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks

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Profile Notes Red. Plotted Job No. 842 Division No.
No. Date Date Survey of BEACH & ROSLIN STUDIES
X-Sec. Notes Chkd. Checked Survey by F.M.S. Notes
No. Date Date Map No. Indexed Date

F. B. 1288 Pg. 55

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-15	S-16	1	B&W	10 18	55° 39'		Cut in 298+65
		2	R	10 20	55° 24'		
		3	Y	10 23	55° 12'		
		4	B&W	10 24	54° 45'		
		5	R	10 26	54° 26'		
		6	Y	10 29	54° 18'		
		7	B&W	10 31	53° 57'		
		8	R	10 34	52° 49'	GAVE B&W	
		9	Y	10 36	51° 26'		
		10	B&W	10 39	50° 55'		
		11	R	10 40	50° 00'		
		12	Y	10 42	49° 21'		
		13	B&W	10 49	48° 02'		
		14	R	10:46	46° 41'		
		15	Y	10 48	45° 21'		
		16	B&W	10 50	44° 03'		
		17	R	10 52	42° 59'		
		18	Y	10 54	41° 11'		
		19	B&W	10 55	39° 12'		
		20	R	10 57	36° 18'		

Curve in 298+65 S

76L298 307 4-50

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F. B. 1299 Pg. 57 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date No.
Survey by EHB Notes Notes Chkd. Checked X-Sec.
Indexed J. C. Johnson Date Date Date No.
Profile

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks	
S-15	S-16	21	Y	10 59	34° 19'	Cut in 298+65	
		22	B&W	11 01	33° 22'		
		23	R	11 04	32° 41'		
		24	Y	11 06	30° 5'		
		25	B&W	11 08	28° 17'		
		26	R	11 10	27° 5'		
		27	Y	11 11	27° 24'		
		28	B&W	11 13	26° 3'		
		29	R	11 17	26° 8'		
		30	Y	11 18	26° 5'		
		31	B&W	11 18	26° 38'		
		32	R	11 21	24° 50'		
		33	Y	11 21	23° 46'		
		34	B&W	11 22	22° 38'		
		35	R	11 23	22° 14'		
		36	Y	11 25	19° 32'		
S-16		37	B&W	11 26	149° 35'	{ for point occupied from here on. See sketch on next page	
		38	R	11 30	154° 29'		
		39	Y	11 31	158° 37'		
		40	B&W	11 32	161° 35'		

CUT IN 298+65 S

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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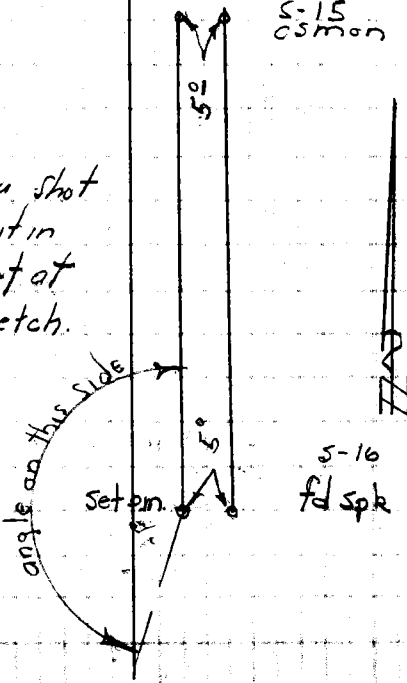
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
5' OFF	5' OFF	41	R	11 33	163° 53'	Cut in 298+65
S-16	S-15	42	Y	11 34	168° 04'	
		43	B&W	11 35	170° 35'	
		44	R	11 36	172° 58'	
		45	Y	11 37	176° 20'	
		46	B&W	11 37	179° 40'	

note
shot no 37 thru shot
No 46 were out in
from 5' offset at
S-16 see sketch.



Cut in 298+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 53
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Job Name ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

F. B. 1299 Pg. 54

Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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PLAT

Do not extend notes this side of this line. 298+65 S RANGE

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date 4-6-53 Date Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. KRK Checked Survey by EHB Noted KRK Date 2-26-52
No. Date 4-6-53 Date Map No. Date

F. B. 1299 Pg. 55

Book 298+65 S

STATION	B. S.	H. I.	F. S.	ELEV.			
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
		2307					
1 BW	10 18	2299	230.2	39	226.3	2350	STANGELAND - LEAD
		2269					
2 R		2259	226.2		222.3	2315	KVAMMEN - RECORD
		2222					
3 Y		2217	221.9		218.0	2280	ANDERSON - MOTOR
		2182					
4 BW	10 24	2174	217.7	38	213.9	2230	
		2153					
5 R		2145	214.8		211.0	2185	
		2101					
6 Y		2091	209.4		205.6	2165	
		2088					
7 BW	10 31	2068	207.2	37	203.5	2130	
		2021					
8 R		2015	201.7	37	198.0	2015	
		1909					
9 Y		1901	190.4	36	186.8	1875	
		1820					
10 BW	10 39	1811	181.4	35	177.9	1825	
		1758					
11 R		1750	175.3		171.8	1745	
		1720					
12 Y		1709	171.3		167.8	1690	
		1660					
13 BW	10 44	1650	165.3	34	161.9	1585	
		1554					
14 R		1548	155.0		151.6	1500	
		1490					
15 Y		1482	148.4		145.0	1410	
		1406					
16 BW	10 50	1397	140.0	33	136.7	1330	
		1305					
17 R		1299	130.1		126.8	1290	
		1210					
18 Y		1200	120.3		117.0	1175	
		1123					
19 BW	10 55	1110	111.4	32	108.2	1080	
		1031					
20 R		1023	102.6	32	99.4	1005	

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. 298+65 continued

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y		926 / 918	92.1	3.1	89.0 ✓	890	✓
22	BW	11 01	771 / 766	76.8	3.0	73.0 ✓	840	✓
23	R		863 / 856	85.8	3.0	82.8 ✓	825	✓
24	Y		681 / 671	67.4	2.9	64.5 ✓	750	note shallow depth
25	BW	11 08	606 / 600	60.2	2.8	57.4 ✓	700	went out again
26	R		561 / 552	55.5	2.8	52.7 ✓	672	solid bottom
27	Y		525 / 518	52.0	2.7	49.3 ✓	655	✓
28	BW	11 13	326 / 313	31.7	2.6	29.1 ✓	630	← ANDERSON - LEAD ?
29	R		498 / 486	49.0		46.4 ✓	645	note descrepency here & on previous range
30	Y		450 / 438	44.2		41.6 ✓	632	✓
31	[illegible]	11 18	386 / 377	38.0	2.5	35.5 ✓	647	✓
32	R		350 / 343	34.5	2.5	32.0 ✓	600	✓
33	Y		312 / 302	30.5	2.4	28.1 ✓	570	✓
34	[illegible]	11 22	290 / 282	28.5	2.3	26.2 ✓	550	✓
35	Y		262 / 255	25.7		23.4 ✓	530	✓
36	Y		227 / 220	22.2		19.9 ✓	475	✓
37	BW	11 26	194 / 185	18.8	2.2	16.6 ✓	425	✓
38	R		174 / 166	16.9		14.7 ✓	350	✓
39	Y		147 / 137	14.0		11.8 ✓	295	✓
40	BW	11 32	132 / 121	12.5	2.1	10.4 ✓	265	✓

Boat 298+65 S

F. B. 1299 Pg. 56 Job No. 8412 Division No. Notes Red. LMW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date No.
Survey by FHB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed [illegible] O. Johnson Date 4-6-53 Date No.

FORM 307 SM 1-46

PLEASE RETURN TO
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700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 298+65 S continued

Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Distance	Remarks
41	R		11.2 10.0	10.4	2.1	8.3	240	✓
42	Y		9.8 8.7 8.6	9.1 ~~8.0~~		7.0	200	✓
43	BW	11 35	7.3 7.5	7.7	2.0	5.7	170	✓
44	R		6.3 6.0	6.7		4.7	150	✓
45	Y		4.9 4.5	5.3		3.3	120	✓
46	BW	11 37	3.8	4.0	1.9	2.1	95	✓
47								
48								

Boat 298+65 S

Profile No. ____ Notes Red. [illegible] Plotted ____ Job No. 8412 Division No. ____ Date 4-6-53 Date ____ Survey of BEACH EROSION STUDIES

Y-Sec. No. ____ Notes Chkd. [illegible] Checked ____ Survey by FHB Notes KRK Date 2-26-53

No. ____ Date 4-6-53 Date ____ Map No. ____ Date ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
# Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks

F.B. 1249 Pg. 58

Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
296+65 S.	0 02	20 16		20 14		N&T
2' L.			1 4 0	6 2		Sand
15' L.			5 5	14 7		Top rocks
T.P.	0 00	14 71	5 95	14 71		
31' L			1 2 9	1 8		bot. "

Inshore
296+65 S.

Profile
No. X-Sec. No.
Notes Red Plotted Job No. 8412 Division No. F.B. 1299 Pg. 59
Date Date Survey of Beach Erosion Studies
Notes Chkd Checked Survey by English Notes English Date 2-26-53
Date 4-23-53 Date Map No. Checked Johnson Date

F.B. 1299 PG. 60 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by English | Notes English | Notes Chkd. Lowe | Checked | X-Sec.

Indexed E. O. Johnson | Date | Date 4-23-15 | Date | No.

Inshore
294+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
294+65 S.	0 15	19 73		19 58	N.A.T.
6', L.			11 0	8 7	Sand
13', L			5 3	14 4	Top rocks
T.P.	0 02	14 30	5 45	14 28	
39', L.			12 1	2 29	Bot. rock

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76L298 307 10-51

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76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks
296+65	296+65	1 BW	12 44	86°37'	✓	Transit occupied
		2 R			✓	a pto on horseshoe
		3 Y			✓	pier which is on
		4 BW	12 50		✓	range line
		5 R			✓	
		6 Y			✓	
		7 BW	12 57		✓	
		8 R			✓	
		9 Y			✓	
		10 BW	1 04		✓	
		11 R			✓	
		12 Y			✓	
		13 BW	1 14		✓	
		14 R			✓	
		15 Y			✓	
		16 BW	1 19		✓	
		17 R			✓	
		18 Y		✓	✓	
		19 BW	1 27		✓	
		20 R			✓	

RANGE 296+65 S

Profile Notes Red ____ Plotted ____ Job No. 6412 Division No. ____ F. B. 1299 Pg. 61
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by FHB Notes KRK Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Job No. ____ Date ____

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F. B. 12996 Pg. 62 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date No.
Survey by FHB Notes K R K Notes Chkd Checked X-Sec.
Indexed J. O. Johnson Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
296465	296465	21	Y		86°37'	✓	RANGE	296+65
		22	BW	137		✓		
		23	R			✓		
		24	Y					
		25	BW	140		✓		
		26	R			✓		
		27	Y			✓		
		28	BW	146		✓		
		29	R			✓		
		30	Y			✓		
		31	BW	156		✓		
		32	R			✓		
		33	Y		✓	✓		
		34	BW	201		✓		
		35	R			✓		

Range 296+65-S

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-15	S-16	1	B&W	12 44	56° 37'	✓	Cut in 296+65
		2	R	12 45	56° 35'	✓	
		3	Y	12 47	56° 10'	✓	
		4	B&W	12 50	55° 37'	✓	
		5	R	12 51	55° 18'	✓	
		6	Y	12 53	53° 47'	✓	
		7	B&W	12 57	52° 56'	✓	
		8	R	12 59	51° 44'	✓	
		9	Y	1 02	49° 44'	✓	
		10	B&W	1 04	49° 01'	✓	
		11	R	1 07	47° 20'	✓	
		12	Y	1 13	45° 39'	✓	
		13	B&W	1 14	45° 01'	✓	
		14	R	1 15	44° 20'	✓	
		15	Y	1 17	42° 54'	✓	
		16	B&W	1 19	41° 18'	✓	
		17	R	1 21	39° 55'	✓	
		18	Y	1 25	38° 44'	✓	
		19	B&W	1 27	37° 11'	✓	
		20	R	1 28	36° 00'	✓	

Cut in 296+65 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1299 Pg. 63
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-26-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76 298 307 4-50

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F. B. 12-99 Pg. 64 | Job No. 8812 Division No. | Notes Red | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No.
Survey by F.H.B. | Notes | Notes Chkd. | Checked | X-Sec.
Indexed A. C. Johnson | Date | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
5-15	5-16	21	Y	1 36	35° 02'	✓	Cut in 296+65
		22	B&W	1 37	34° 39'	✓	
		23	R	1 38	33° 05'	✓	
		24	Y				
		25	B&W	1 40	31° 04'	✓	
		26	R	1 41	30° 41'	✓	
		27	Y	1 44	28° 25'	✓	
		28	B&W	1 46	26° 31'	✓	
		29	R	1 50	25° 33'	✓	
300+65	5-17	30	Y	1 55	48° 10'	✓	
		31	B&W	1 56	44° 54'	✓	
		32	R	1 58	43° 20'	✓	
		33	Y	2 00	33° 11'	✓	
		34	B&W	2 01	26° 23'	✓	
		35	R	2 02	26° 20'	✓	

Cut in 296+65

FORM 307 10M 10-46

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700 HALL OF RECORDS

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296+65 - RANGE

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Distance	Remarks
1	BW	1244	1420 / 1409	141.3	0.7	140.6	1913	NO-HEAD / EN-RECORD
2	R		1490 / 1480	148.3		147.6	1903	SON-MOTOR
3	Y		1441 / 1431	143.4		142.7 ~~141.7~~	1860	1st bottom
4	BW	1250	1403 / 1391	139.5	0.7	138.8	1801	
5	R		1401 / 1393	139.6		138.9	1770	
6	Y		1545	154.8		154.1	1622	
7	BW	1257	1562 / 1455	145.7	0.6	145.1	1551	
8	R		1428 / 1420	142.3	0.6	141.7	1461	
9	Y		1313 / 1302	130.6	0.5	130.1	1321	
10	BW	104	1272 / 1263	126.6	0.4	126.2	1280	
11	R		1210 / 1202	120.5		120.1	1180	
12	Y		1118 / 1058	111.1		110.7	1092	
13	BW	114	1063 / 1024	106.3	0.3	106.0	1062	
14	R		1011 / 986	101.5		101.2	1030	
15	Y		972 / 919	97.7		97.4	970	
16	BW	119	915 / 839	91.6	0.2	91.4	907	
17	R		829 / 739	83.2		83.0	853	
18	Y		733 / 601	73.3		73.1	810	
19	BW	127	590 / 468	59.4	0.1	59.3	761	
20	R		478	48.1		48.0	721	

Boat 296+65 S

Profile No. ____ Notes Red LRW Plotted ____ Job No. 8412 Division No. ____ F.B. 1249 Pg. ____
Date 4-6-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd KRR Checked ____ Survey by FHB Notes KRK Date 2-26-53
Date 4-28-53 Date ____ Map No. ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Dist.	Remarks
21	Y			42 0 / 43 3	40.9	0.1	40.8	697	N - LEAD
22	BW		1 37	37 / 35 8	36.4	0.0	36.4	685	again appeared
23	R			32 / 31 2	31.7		31.7	640	shallower than
24	Y			28 3 / 27 3	27.6		27.6	out	and as in two
25	BW		1 40	27 3 / 26 3	26.8	0 0	26.8	590	ranges
26	R			24 3 / 24 0	24.3		24.3	578	
27	Y			21 7 / 20 0	21.1		21.1	522	
28	BW		1 46	18 4 / 17 9	18.1	-0.1	18.2	480	
29	R			17 0 / 15 9	16.3		16.4	428	
30	Y			15 0 / 14 8	14.9		15.0	320	
31	BW		1 56	13 0 / 11 8	12.2	-0.2	12.4	290	
32	R			11 5 / 10 5	10.8		11.0	252	
33	Y			9 0 / 8 0	8.3		8.5	199	
34	BW		2 01	6 8 / 6 0	6.3	-0.2	6.5	151	
35	R			4 6 / 3 6	3.9		4.1	111	
36	Y								
37	BW								
38	R								
39	Y								
40	BW								

Boat 296+65 S

F.B. 1799 PG. 66 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date X-Sec.
Survey by FHB Notes KRK Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date

F. B. 1299 Pg. 66 A

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd °F
Surveyed by
Notes Date
Indexed

FEB 27, 1953

TIME	GAGE
0600	46
0630	50
0700	53
0730	57
0800	58
0830	58
0900	56
0930	54
1000	49
1030	44
1100	39
1130	30
1200	23
1230	16
1300	10
1330	07
1400	04
1430	00

Note: Any Additions or Changes of This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

RETURN TO
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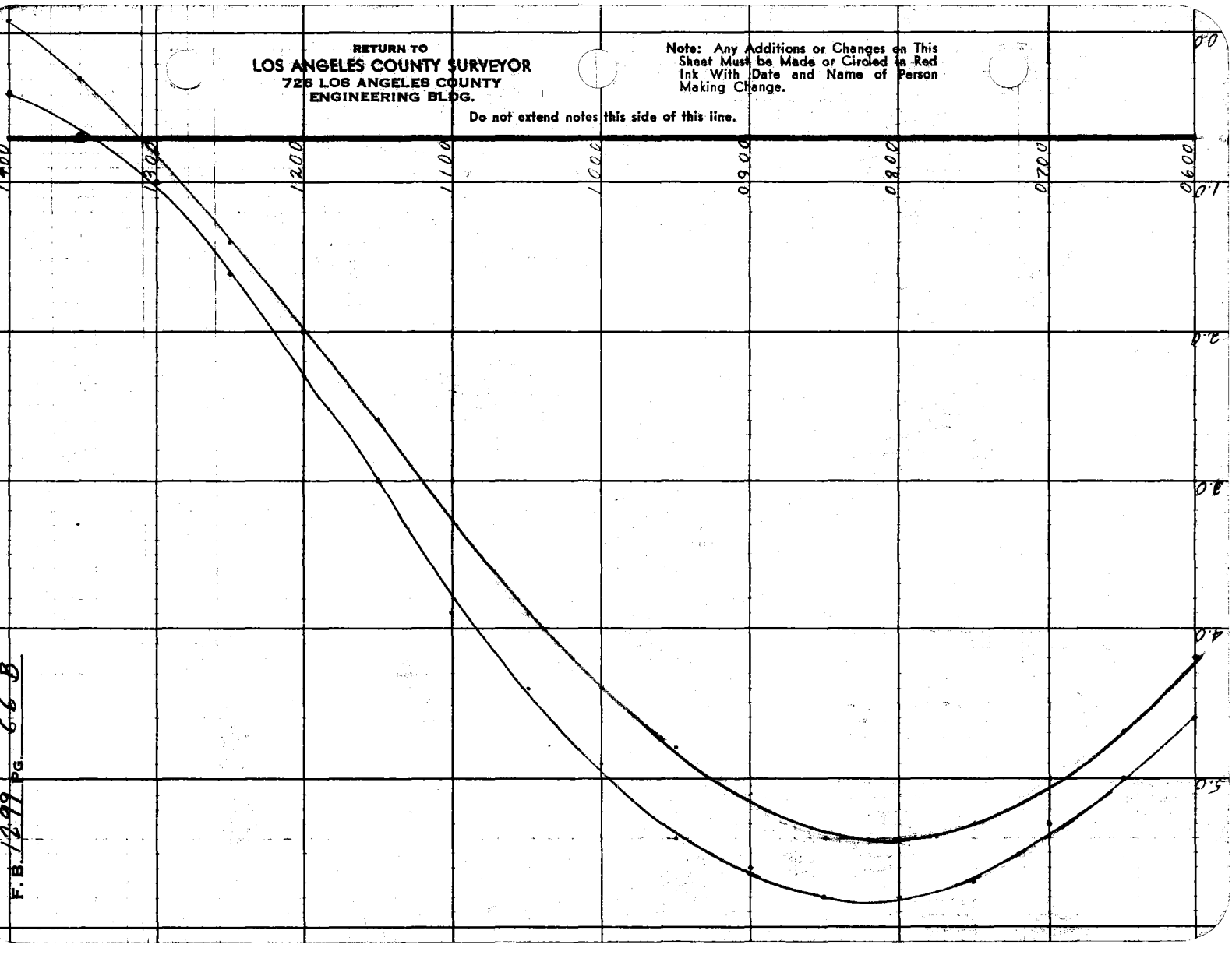

F.B. 1299 PG. 66 B

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks RANGE 294+65
294+65	294+65	1	B+W	7:01	86° 37'	✓	
		2	R		86° 37'	✓	INSTRUMENT OFF SET ON PIER
		3	Y	7:22	86° 37'	✓	
		4	B+W	7:23	86° 37'	✓	
		5	R	7:31	86° 37'	✓	
		6	Y		86° 37'	✓	
		7	B+W	7:34	86° 37'	✓	
		8	R		86° 37'	✓	
		9	Y		86° 37'	✓	
		10	B+W	7:43	86° 37'	✓	
		11	R		86° 37'	✓	
		12	Y		86° 37'	✓	
		13	B+W	7:48	86° 37'	✓	
		14	R		86° 37'	✓	
		15	Y		86° 37'	✓	
		16	B+W	7:56	86° 37'	✓	
		17	R		86° 37'	✓	
		18	Y		86° 37'	✓	
		19	B+W	8:03	86° 37'	✓	
		20	R		86° 37'	✓	

RANGE 294+65

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes U.S. Date 2-27-53
No. Date Date Map No. Inked changes Date

F. B. 1298 Pg. 67

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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F. B. 1299 Pg. 68 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | No.
Survey by BLANCHARD Notes U.S. | Notes Chkd. | Checked | X-Sec.
Indexed K. O. Johnson Date 2-27-53 | Date | Date | No.

STATION At	STATION On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
Inst. Sight							RANNGE 294+65
294+65	294+65	21	Y		36° 37'	✓	
		22	B+W	8:10	86° 37'	✓	
		23	R		36° 37'	✓	
		24	Y		86° 37'	✓	
		25	B+W	8:33	86° 37'	✓	
		26	R		86° 37'	✓	
		27	Y		86° 37'	✓	
		28	B+W	8:36	86° 37'	✓	
		29	R		86° 37'	✓	
		30	Y		86° 37'	✓	
		31	B+W	8:41	86° 37'	✓	
		32	R		86° 37'	✓	
		33	Y		86° 37'	✓	
		34	B+W	8:46	86° 37'	✓	
		35	R		86° 37'	✓	
		36	Y		86° 37'	✓	
		37	B+W	8:55	86° 37'	✓	
		38	R		86° 37'	✓	
		39	Y		86° 37'	✓	

Range @ 294+65 S

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-14	S-15	1	B&W	7 01	50° 42'	✓	Cut in 294+65
		2	R	7 04	50° 03'	✓	
		3	Y	7 22	49° 07'	✓	
		4	B&W	7 23	48° 47'	✓	
		5	R	[illegible]	[illegible]	✓	
		6	Y	[illegible]	46° 04'	✓	
		7	B&W	7 34	47° 54'	✓	
		8	R	7 37	47° 39'	✓	
		9	Y	7 33	[illegible]	✓	
		10	B&W	7 43	45° 57'	✓	
		11	R	7 44	45° 30'	✓	
		12	Y	7 46	44° 36'	✓	
		13	B&W	7 48	[illegible]	✓	
		14	R	7 50	42° 00'	✓	
		15	Y	7 54	39° 29'	✓	
		16	B&W	7 56	38° 45'	✓	
		17	R	7 58	38° 06'	✓	
		18	Y	8 00	36° 07'	✓	
		19	B&W	8 03	34° 39'	✓	
		20	R	8 05	[illegible]	✓	

Cut in 294+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 69
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by FHB Notes Date 2-27-53
No. Date Date Map No. Date

76L298 307 4-50

PLEASE RETURN TO
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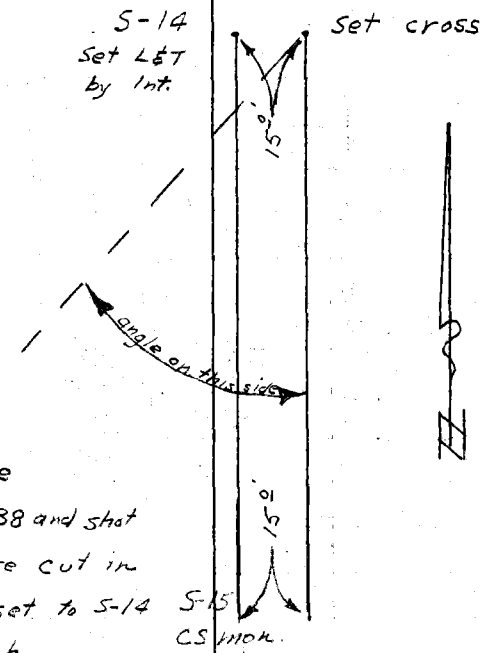
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-14	S-15	21	Y	8 07	32 21	✓	Cut in 294+65
		22	B&W	8 10	[illegible]	✓	
		23	R	[illegible]	[illegible]	✓	
		24	Y	8 12	30 29	✓	
		25	B&W	8 33	[illegible]	✓	
		26	R	8 34	28 [illegible]	✓	
		27	Y	8 35	[illegible]	✓	
		28	B&W	[illegible]	[illegible]	✓	
		29	[illegible]	8 37	27 [illegible]	✓	
		30	Y	8 39	26 [illegible]	✓	
		31	B&W	[illegible]	23 [illegible]	✓	
		32	R	8 42	[illegible]	✓	
		33	Y	8 45	19 [illegible]	✓	Note
		34	B&W	8 [illegible]	[illegible]	✓	Shot No. 38 and shot
		35	R	8 [illegible]	[illegible]	✓	No. 39 were cut in
		36	[illegible]	8 [illegible]	[illegible]	✓	at 15' offset to S-14
		37	B&W	8 55	11 00	✓	See Sketch.
15' OFF S-14	15' OFF S-15	38	R	9 03	8 3	✓	
		39	Y	9 04	[illegible] 5	✓	

Out/N 294+65 S



F. B. 1299 Pg. 70 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by KHB Notes Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

FORM 807 10M 10-46

PLEASE RETURN TO 2
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 294+65 S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	BW	7 01	1362 / 1350	135.4	54	130.0 / 1620	[illegible]
2	R		[illegible]	134.4	54	129.0 / 1579	[illegible]
3	Y		[illegible]	121.6	55	116.1 / 1515	ANDERSON - MOTOR
4	BW	7 23	116.8	117.1	56	111.5 / 1497	
5	R		1189 / 1159	119.3		113.7 / 1480	[illegible]
6	Y		1140	114.6		109.0 / 1454	
7	BW	7 34	1101 / 1092	109.6	57	103.9 / 1444	because of nature of bottom
8	R		1045 / 1035	103.8		98.1 / 1432	it was difficult to stay
9	Y		952 / 939	94.3		88.6 / 1421	on range + sound accurately.
10	BW	7 43	814	88.2	57	82.5 / 1335	Range angle not turned
11	R			84.3		78.6 / 1310	to us so [illegible]
12	Y		[illegible]	80.3		74.6 / 1268	[illegible] not locate [illegible]
13		7 48	[illegible]	75.3	58	69.5 / 1200	[illegible] for ranges [illegible]
14	R		732 / 717	72.2		66.4 / 1138	[illegible] could not be [illegible]
15	Y		801	80.6		74.8 / 1030	[illegible] got off of the
16	BW	7 56	869 / 853	85.8	58	80.0 / 999	gummy bottom
17	R		868 / 848	85.5		79.7 / 972	depth BSL seems to go
18	Y		810 / 800	80.3		74.5 / 893	up + down very irregular.
19	BW	8 03	761 / 751	75.4	58	69.6 / 842	Continuous recorder seems
20	R		710 / 700	70.3		64.5 / 789	alternative.

Profile
No. ____ Date 4-6-53 Plotted ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd. KRK Checked ____ Survey of BEACH EROSION STUDIES
No. ____ Date 4-22-53 Date ____ Survey by FHB Notes KRK Date 2-27-53
Map No. ____ Indexed Johnson Date ____

F.B. 1299 PG. 71

Boat 294+65

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Dist.	Remarks
21	Y	66.9	67.2	5.8	61.4	766	Solid
22		63.0	63.3	5.8	57.5	738	
23		58.4	58.8		53.0	706	
24			55.9		50.1	701	
25	8 3	50.4	50.7	5.8	44.9	671	
26			44.2		38.4	647	
27		38.8	39.0		33.2	619	
29	6		35.8	5.8	30.0	611	
30		32.2	32.6		26.8	594	
31		29.5	28.7		22.9	552	
32	8 1	25.5	25.8	5.7	20.1	500	
33		22.5	22.9		17.2	448	
34			19.8		14.1	372	
35	8 46	11.1	18.1	5.7	12.4	320	
36		12.0	15.4		9.7	247	
37		12.3	12.6		6.9	213	
38	8 55	10.2	10.4	5.7	-4.7	172	
39		7.5	7.5		-1.8	93	
40		4.3	4.5		+1.2	49	

Range 294+65.5

F.B. 1 PG. 72 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date X-Sec.
Survey by FHB Notes KRK Notes Chkd. KRK Checked No.
Indexed C. Johnson Date Date 4-22-53 Date

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
292+65	5 21	24 79 ✓		19 58 ✓		N&T
28' L.			4 8	20 0 ✓		Top mac.
41' L.			10 4	19 4 ✓		rock
T.P.	0 00	14 39	10 40	14 39 ✓		
66' L.			14 0	+ 0 4 ✓		bot. "

Instore
292+65 S.

Profile Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 11799 Pg. 72

No. _____ Date _____ X-Sec. _____ Date _____ Survey of Beach Erosion Studies

No. _____ Date 4-23-53 Notes Chkd. Lowe Checked _____ Survey by English Notes English Date 2-26-53

Date _____ Map No. _____ Indexed _____ Job Completed _____ Date _____

F.B. 1299 PG. 74 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by English Notes English Notes Chkd. [illegible] Checked _____ X-Sec.

Indexed [illegible] Johnson Date _____ Date 4-23-53 Date _____ No. _____

76L298 307 10-51

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY

ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
290+65 S.	5 19	26 23		21 04		N.&T.
25' L.			6 0	20 2		Mac.
41' L.			5 8	20 4		T. Brk.
T.P.	0 00	12 93	13 30	12 93		
85' L.			14 0	-1 11		bot. rocks

Inshore
290+65 S.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	76°01'	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 292+65-S
292+65	S-16	1	B+W	9:55	76° 01'	✓	
		2	R		76° 01'	✓	
		3	Y		76° 59'	✓	
		4	B+W	10:02	77° 08'	✓	
		5	R		76° 56'	✓	
		6	Y		76° 40'	✓	
		7	B+W	10:06	76° 01'	✓	
		8	R		76° 01'	✓	
		9	Y		76° 37'	✓	
		10	B+W	10:18	76° 01'	✓	
		11	R		76° 01'	✓	
		12	Y		76° 01'	✓	
		13	B+W	10:21	76° 01'	✓	
		14	R		76° 01'	✓	
		15	Y		76° 01'	✓	
		16	B+W	10:24	76° 01'	✓	
		17	R		76° 01'	✓	
		18	Y		76° 01'	✓	
		19	B+W	10:27	75° 13'	✓	
		20	R		76° 01'	✓	

RANGE 292+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 75
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes J.S. Date 2-27-53
No. Date Date Map No. X Checked Johnson Date

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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F. B. 1299 Pg. 26 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No.
Survey by BLANCHARD Notes J.S | Notes Chkd. | Checked | X-Sec.
Indexed [illegible] Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At / On	#	Color	Time	Hor. Ang.		Remarks RANGE 292+65
292+65 / S-16	21	Y		74°54'	✓	
	22	B+W	10:30	76°[illegible]1'	✓	
	23	R		74°53'	✓	
	24	Y		76°[illegible]1'	✓	
	25	B+W	10:35	76°11	✓	

Range 292+65 S

F

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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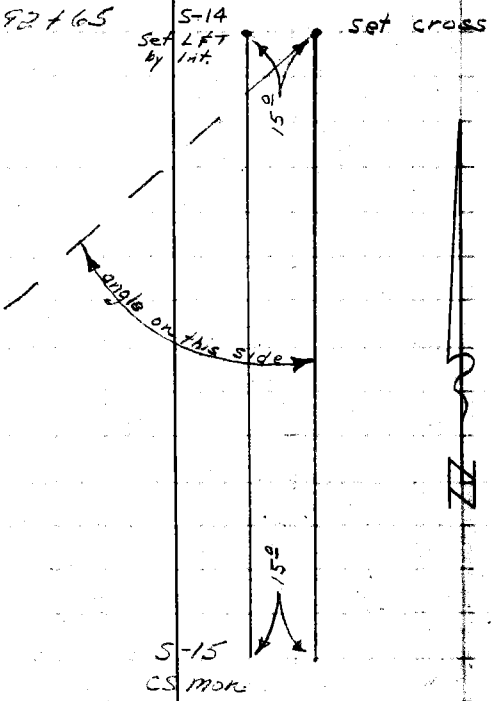
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
15' OFF S-14	15' OFF S-15	1	B&W	9 55	53° 45'	✓	Cut in 292+65
		2	R	9 58	51° 36'	✓	
		3	Y	10 00	49° 56'	✓	
		4	B&W	10 02	47° 29'	✓	
		5	R	10 04	45° 07'	✓	
		6	Y	10 05	43° 58'	✓	
		7	B&W	10 06	42° 07'	✓	
		8	R	10 08	39° 26'	✓	
		9	Y	10 09	36° 58'	✓	
		10	B&W	10 18	36° 36'	✓	
		11	R	10 19	35° 22'	✓	
		12	Y	10 20	33° 20'	✓	
		13	B&W	10 21	31° 30'	✓	
		14	R	10 22	29° 37'	✓	
		15	Y	10 23	28° 03'	✓	
		16	B&W	10 24	26° 23'	✓	
		17	R	10 25	24° 12'	✓	
		18	Y	10 26	21° 57'	✓	
		19	B&W	10 27	19° 41'	✓	
		20	R	10 28	17° 13'	✓	



Cut in 292+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. S. 1299 Pg. 77
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by FHB Notes Date 2-22-52
No. Date Date Map No. Indexed Job Date

F. B. 1299 Pg. 78 | Job No. 9412 Division No. | Notes-Red | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | No.

Survey by [illegible] | Notes | Checked | X-Sec.

Indexed | Date | Notes Chkd. | Date | No.

76E298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight ft. On	#	Color	Time	Hor. Ang.		Remarks
5-14 15.02 5-15	21.	Y	10 29	14° 58'	✓	Cut in 292+65
	22	*B&W	10 30	13° 12'	✓	
	23	R	10 31	11° 21'	✓	
	24	Y	10 31	9° 37'	✓	
	25	B&W	10 35	7° 52'	✓	

Cut in 292+65

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. RANGE 29 & 30

Profile — Boat

Notes Red Lead Plotted — Job No. 5411 Division No. — F.B. 1288 pg. 72

No. — Date 2-6-53 Date — Survey of BEACH EROSION STUDIES

No. — Notes Chkd. KAK Checked — Survey by FHB Notes AS Date 2-22-53

Date 2-22-53 Date — Map No. — Traced J. Johnson Date —

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Dist.	Remarks
1	BW	9:55	104.9	104.5	45	10.00	1536	MEN - LEAD
2	R		96.0	95.5		91.0	1403	WEIGHTS - 1/0
3	Y		86.4	85.2		80.7	1284	BUOY
4	BW	10:02	77.2	72.8	44	68.4	1167	
5	R		68.5	63.7		59.3	1061	
6	Y		59.8	60.3		55.9	1022	
7	BW	10:06	59.3	58.9	43	54.6	954	
8	R		56.4	56.0	43	51.7	860	
9	Y		49.9	49.9	42	45.7	773	WEIGHTED LEAD
10	BW	10:18	48.9	48.5	41	44.4	763	
11	R		42.5	42.1		38.0	721	
12	Y		33.4	33.0		28.9	661	
13	BW	10:21	29.7	29.9	40	25.9	610	
14	R		24.9	24.8		20.8	558	
15	Y		23.5	23.9		19.9	517	
16	BW	10:24	22.0	22.3	40	18.3	477	
17	R		21.7	21.4		17.4	422	
18	Y		19.2	19.6		15.6	371	
19	BW	10:27	17.5	17.9	39	14.0	322	
20	R		16.8	16.5		12.6	264	

Range 29 & 30 Point 2047 29265

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 292+65 CONTD

STATION	B. S.	H. I.	F. S.	ELEV.			— BOAT —
#	Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Distance	Remarks
	RANGE 292+65						
21	Y	14.5 13.6	13.9	3.9	10.0	219	
22	BW 10:30	12.5 11.5	11.8	3.9	7.9	182	
23	R	11.1 9.5	10.0		6.1	144	
24	Y	8.7 7.3	7.8		3.9	110	
25	BW 10:35	5.0 6.5	7.0	3.8	3.2	76	SHOT LOST
26	R						
27	Y						

Boat 292+65

F.B. 1299 PG. 80 Job No. 8412 Division No. Notes Red. RWW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date X-Sec.
Survey by FHB Notes AS Notes Chkd KRK Checked No.
Indexed Johnson Date Date 4-22-53 Date

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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Profile Notes Red____ Plotted____ Job No. 2112 Division No.____ F. B. 1298 Pg. 87
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd____ Checked____ Survey by BLANCHARD Notes____ Date 2-27-53
No.____ Date____ Map No.____ Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks RANGE 290+65-S
290+65 S-16	1	B+W	11:01	74° 49'	✓	
	2	R		75°03	✓	
	3	Y		75°02	✓	
	4	B+W	11:09	76°01	✓	
	5	R		75°19'		
	6	Y		76°01'	✓	
	7	B+W.	11:15	76° 01'	✓	
	8	R		76° 01'	✓	
	9	Y		76° 01'	✓	
	10	B+W	11:20	76°01'	✓	
	11	R		76°01'	✓	
	12	Y		76°01'	✓	
	13	B+W	11:24	76°01'	✓	
	14	R		76°01'	✓	
	15	Y		76°01'	✓	

RANGE 290+65-S

F. B. 1299 Pg. 82 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by BLANCHARD Notes J.S Notes Chkd. Checked No.
Indexed Date Date Date

96L298 337 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks RANGE 288+65-S
288+65 S-15	1	B+W	11:46	86° 00'	✓	
	2	R		86° 00'	✓	
	3	Y		85° 57'	✓	
	4	B+W	11:55	85° 48'	✓	
	5	R		86° 00'	✓	
	6	Y		85° 56'	✓	
	7	B+W	12:00	86° 00'	✓	
	8	R		85° 41'	✓	
	9	Y		86° 00'	✓	
	10	B+W	12:03	85° 52'	✓	
	11	R		86° 00'	✓	
	12	Y		86° 00'	✓	
	13	B+W	12:06	86° 21'	✓	
	14	R	---	86° 30'	✓	
	15	Y		86° 00'	✓	
	16	B+W	12:10	86° 00'	✓	
	17	R		86° 00'	✓	
	18	Y		86° 00'	✓	
	19	B+W	12:14	86° 00'	✓	
	20	R		86° 00'	✓	

Range 288+65-S

76L298 307 4-50

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Profile Notes Red. Ecwc Plotted Job No. 5412 Division No. F. B. 1299 Pg. 85
No. Date 4-6-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked Survey by EHB Notes 45 Date 2-27-53
No. Date 4-22-53 Date Map No. Index Date Date

STATION	B. S.	H. I.	F. S.	ELEV.				
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			74.9					+ BOAT
1	BW	11:01	73.1	73.7	38	69.9	1390	JMEY - KEED
2	R		66.3 66.0	65.6	38	61.8	1335	KEED ID - PEASE
3	Y		56.7 56.0	55.4	37	51.7	1270	KSON - PUTZ PUTZ
4	BW	11:09	46.3 45.5	45.9 Insert #5	36	42.3	1080	
5	R	Void	35.6 34.4	VOID		SNAFU		CANCELED ON FIELD
6	Y		33.6 33.9	34.3	35	30.8	800	
7	BW	11:15	29.0 27.8	28.2	34	24.8	682	HEED LEADS
8	R		29.5 24.0	24.3		21.1	580	
9	Y		21.4 20.0	20.5		17.1	452	
10	BW	11:20	19.5 18.0	18.5	33	15.2	363	
11	R		16.7 15.6	15.6		12.3	282	
12	Y		14.6 13.1	13.6		10.3	230	
13	BW	11:24	13.2 12.2	12.5	32	9.3	217	
14	R		10.7	10.2		7.0	153	
15	Y		9.6 8.6	8.5		5.3	115	
16	BW							
17	R							
18	Y							
19	BW							
20	R							

Boat 1965

76L298 307 4-50

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Do not extend notes this side of this line. 288+65 RANGE

~BOAT~

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	11:46	54.0 53.0	53.3	2.6	50.7	1608	MEN ~ LEAD
2	R		49.1 48.0	48.4		45.8	1419	GELAND - NOTES
3	Y		44.0 42.0	42.7		40.1	1297	RSON ~
4	[illegible]	11:55	41.0 39.7	40.1	2.5	37.6	1198	
5	R		38.0 36.0	36.7	2.5	34.2	1086	
6	Y		34.3 33.0	33.4	2.4	31.0	987	
7	BW	12:00	30.9 29.0	29.6	2.3	27.3	876	
8	R		29.3 27.8	28.3		26.0	786	
9	Y		26.7 25.2	26.7		24.4	697	
10	BW	12:03	24.6 23.5	23.9	2.2	21.7	612	
11	R		23.7 22.3	22.8		20.6	547	
12	Y		21.0 20.0	20.3		18.1	466	
13	BW	12:06	19.0 17.9	18.3	2.1	16.2	388	
14	R		17.1 16.2	16.5		14.4	330	
15	Y		16.4 15.0	15.5		13.4	270	
16	BW	12:10	14.2 13.4	13.7	2.0	11.7	228	
17	R		12.5 11.4	11.8		9.8	176	
18	Y		11.4 10.3	10.7		8.7	169	
19	BW	12:14	10.2 8.9	9.3	2.0	7.3	132	
20	R		7.5 6.5	6.8		4.8	98	

Boat 288+65

F. S. 1299 Pg. 86 Job No. 8412 Division No. Notes Red LDW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-6-53 Date No.
Survey by E.H.B. Notes A.S. Notes Chkd. KRK Checked X-Sec.
Indexed L. G. Johnson Date Date 4-22-53 Date No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 Pg. 87

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. LCW. Checked _____ Survey by English Notes English Date 2-26-53

Date 4-23-53 Date _____ Map No. _____ Indexed A. C. Johnson Date _____

Inshore
288+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
288+65	3 25	19 58		16 33	L&T
17' L.			2 4	17 2	Top rocks
T.P.	2 90	10 98	11 50	8 08	
55' L.			13 8	-2 8	bot. "

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76L298 307 10-51

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F.B. 127 PG. 98 Job No. 8412 Division No. Studies Profile No. X-Sec. No.

Survey of Beach Erosion Studies Notes Red. Plotted Date

Survey by English Notes Eng 454 Notes Chkd. Laws Checked Date 1-27-53

Indexed A. Johnson Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
286+65 S.	6 80	16 29		9 19		1 X 2
6' L.			4 7	11 6		Top rocks
18' L.			4 8	11 5		" "
T.P.	5 50	10 28	11 51	04 18		
50' L.			12 0	-1 7		bot. rocks

Inshore
286+65 S.

F.B. 1099 Pg. 89

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed E. C. Johnson 3-26-53

MARCH 6 1953

SANTA MONICA PIER

TIME	GAGE
0600	1.5
0630	1.4
0700	1.4
0730	1.5
0800	1.6
0830	1.8
0900	2.0
0930	2.3
1000	2.4
1030	2.7
1100	2.8
1130	2.9
1200	3.1
1230	3.1
1300	3.0
1330	2.9
1400	2.8

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76F309S 247 2-51

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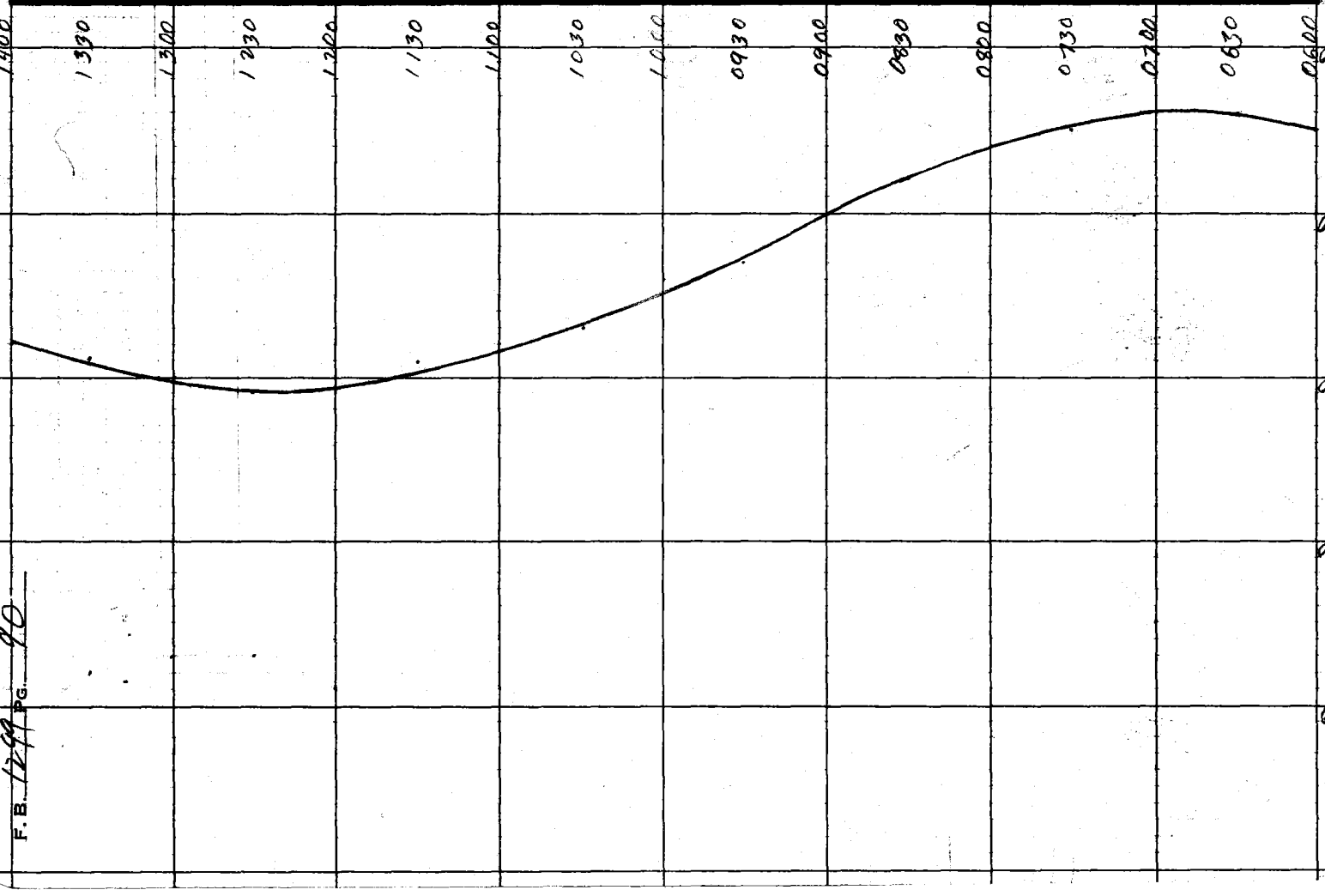

F.B. 1299 PG. 90

76L298 307 4-50

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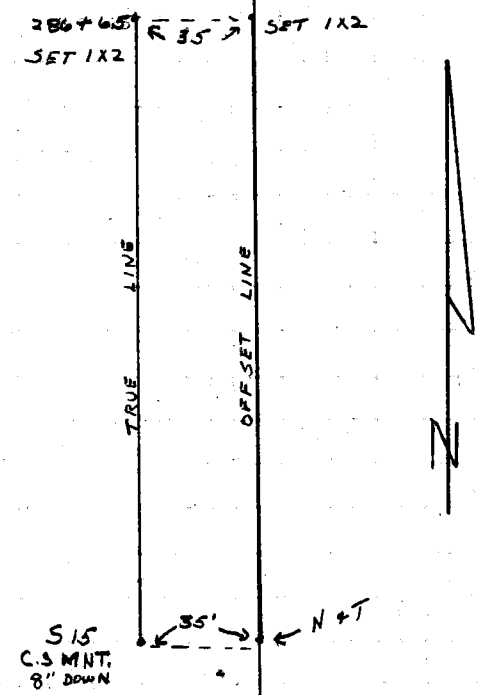
STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks RANGE 286+65
286+65	S-15	1	B+W	8 03	85° 15'	✓
		2	R		87° 06'	✓ INSTRUMENT ON 35' OFFSET
		3	Y		86° 00'	✓
		4	B+W	8 07	86° 00'	✓
		5	R		86° 00'	✓
		6	Y		86° 00'	✓
		7	B+W	8 13	86° 00'	✓
		8	R		85° 36'	✓
		9	Y		86° 00'	✓
		10	B+W	8 28	86° 27'	✓
		11	R		86° 00'	✓
		12	Y		86° 00'	✓
		13	B+W	8 34	86° 00'	✓
		14	R		86° 27'	✓
		15	Y		85° 45'	✓
		16	B+W	8 41	86° 00'	✓
		17	R		86° 00'	✓
		18	Y		86° 00'	✓
		19	B+W	8 56	85° 23'	✓
		20	R		86° 00	✓



RANGE 286+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 91
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes 11 65 Date 3-6-53
No. Date Date Map No. [illegible] Date

76L298 307 4-50

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F. B. 1299 Pg. 92 Job No. 8412 Division No. Notes Red. Plotted. Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes M65 Notes Chkd Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.			Remarks
286+65	S-15	21	Y		86°	00'	✓	INSTRUMENT ON 35' OFF SET
		22	B+W	9 03	86°	00'	✓	
		23	R		86°	00'	✓	
		24	Y		86°	00'	✓	
		25	B+W	9 07	86°	00'	✓	
		26	R		86°	00'	✓	
		27	Y		86°	00'	✓	
		28	B+W	9 09	86°	00'	✓	

RANGE 286+65

Range 286+65 S

76L298 307 4-50

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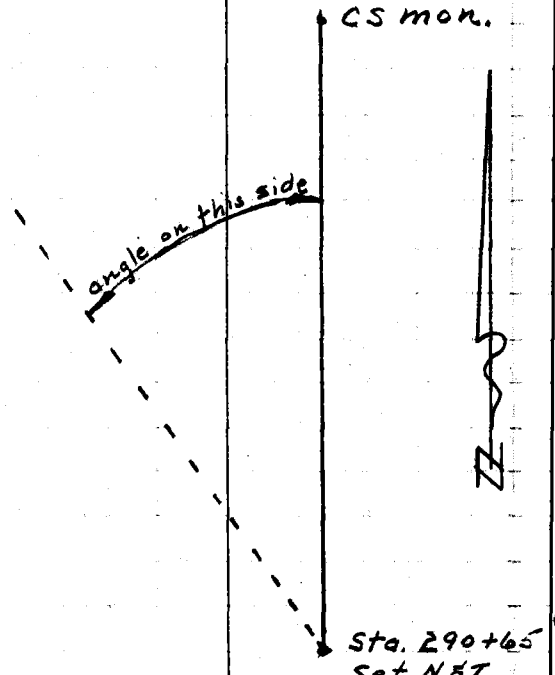
Profile Notes Red. Plotted. Job No. 8412 Division No. V F. B. 1229 Pg. 23
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by FHB Notes R.G. Date 3-6-'53
No. Date Date Map No. Indexed Jobbed Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	# Color		Time Hor. Ang.	Remarks
290+65	S-15	1 B&W	804	80° 51' ✓	Cut in 286+65
		2 R		77° 43' ✓	
		3 Y		77° 27' ✓	
		4 B&W	808	77° 07' ✓	
		5 R		74° 35' ✓	
		6 Y		70° 56' ✓	
		7 B&W	813	68° 03' ✓	
		8 R	819	91° 53' ✓	
		9 Y	826	92° 19' ✓	
		10 B&W	829	91° 25' ✓	
		11 R		90° 51' ✓	
		12 Y		90° 00' ✓	
		13 B&W	835	88° 54' ✓	
		14 R		87° 45' ✓	
		15 Y		85° 58' ✓	
		16 B&W	841	85° 46' ✓	
		17 R		83° 09' ✓	
		18 Y		80° 23' ✓	
		19 B&W	857	68° 28' ✓	
		20 R		53° 45' ✓	



Cut in 286+65 - S

76L298 307 4-50

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F. B. 1299 Pg. 94 | Job No. 8412 Division No. | Notes Red | Plotted | Profile
Survey of BEACH ENGLEWOOD STUDIES | Date | Date | No.
Survey by FHO Notes R.G. | Notes Chkd. | Checked | X-Sec.
Indexed [redacted] Date | Date | Date | No.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At ON	#	Color	Time	Hor. Ang.		Remarks
290+65 S-15	21	Y		47° 30'	✓	Cut in 286+00
	23	B&W	9 03	42° 53'	✓	
	24	R		36° 32'	✓	
	25	Y		30° 38'	✓	
	26	B&W	9 07	27° 30'	✓	
	27	R		23° 20'	✓	
	28	Y		20° 23'	✓	
	29	B&W	9 09	13° 00'	✓	

Cut In 286+00

76L298 307 4-50

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1

Do not extend notes this side of this line. 286+65 S BOAT

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	8:04	29.6 28.0	28.5	1.6	26.9	978	Kavmmen MEN - LEAD
2	R		28.0 26.8	27.2		25.6	912	stanland LAND - RECORD
3	Y		27.2 26.1	26.5		24.9	832	schonfeldt FELDT - MOTOR
4	BW	8:08	27.4 25.5	26.1	1.7	24.4	790	
5	R		25.9 24.6	25.0		23.3	774	
6	Y		24.1 22.4	23.0		21.3	673	
7	BW	8.13	23.1 22.0	22.4	1.7	20.7	612	
8	R		50.4 48.7	49.3		47.6	1960	! PICK UP ON THE (-50') CONTOUR
9	Y		49.2 51.1	49.8		47.1	2115	MEN - LEAD
10	BW	8:28	48.0 49.2	48.4	1.8	46.6	2040	GELAND - OARS
11	R		47 48.1	47.4		45.6	1860	FELDT - NOTES
12	Y		44.5 46	45.0		43.2	1740	
13	BW	8:34	41.8 42.9	42.2	1.8	40.4	1609	
14	R		39.3 40.4	39.7		37.9	1524	
15	Y		3 46.5 3 48.0	37.0		35.2	1308	TE CHANGE OF
16	BW	8:40	3 45.5 3 46.5	35.8	1.9	33.9	1310	T SERIES 30 FT
17	R		3 41.7 3 42.8	32.1		30.2	1138	
18	Y		28.5 29.8	28.9		26.0	989	
19	BW	8 56	22.7 21.3	21.8	2.0	19.8	612	
20	R		19.7 18.4	18.8		16.8	387	

Boat 286+65 S

Profile Notes Red. Lowr. Plotted Job No. 8412 Division No. F.B. 1299 Pg. 95
No. Date 4-6-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked Survey by FHB Notes ACS Date 3-6-53
No. Date 4-22-53 Date Map No. Indexed J. S. Date

76L298 307 4-50

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2

Do not extend notes this side of this line. 286+65 BOAT ~

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y		17.8 16.4	16.9	2.0	14.9	320	FELDT - NOTES
22	BW	9 03	16.6 15.3	15.7	2.0	13.7	272	MEN - LEAD
23	R		15.3 13.9	14.4		12.4	220	ELAND - OARS
24	Y		13.1 12.0	12.4		10.4	172	
25	BW	9 07	12.0 10.5	11.0	2.1	8.9	145	
26	R		11.3 10.0	10.4		8.3	118	
27	Y		9.0 8.0	8.3		6.2	99	
28	BW	9 09	7.6 6.2	6.7	2.1	4.6	46	

Schonfeldt
Kramer
Stangeland

Boat 286+65 S

F. B. 1299 Pg. 96 Job No. 8412 Division No. Notes Red. LAW Plotted Profile
Survey of BEACH EROSIONS STUDIES Date 4-6-53 Date No.
Survey by FHB Notes J.S. Notes Chkd. KRK Checked X-Sec.
Indexed G. Johnson Date Date 4-22-53 Date No.

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 Pg. 97

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. Lewis Checked _____ Survey by English Notes English Date 3-5-53

Date 4-23-53 Date _____ Map No. _____ Indexed O. Johnson Date _____

Inshore
284+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
284+65 S.	3 90	17 07		13 17	L.&T.
10 L.			1 0	16 1	Top rocks
T.P.	4 60	13 97	7 70	9 37	
35' L.			14 0	0 0	bot. "

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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76L298 307 10-51

F.B. 1299 PG. 98 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by English Notes English Notes Chkd. [illegible] Checked _____ X-Sec.

Indexed ~~A. C. Johnson~~ Date _____ Date 4-23-53 Date _____ No. _____

Inshore
280+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.		
280+65 S.	5 31	13 70		8 39		
15' L.			0 5	13 2		
T.P.	6 80	11 60	8 90	4 80		
35' L.			13 0	-1 4		
						L.&T.
						Top rocks
						bot. rocks

76L298 307 10-51

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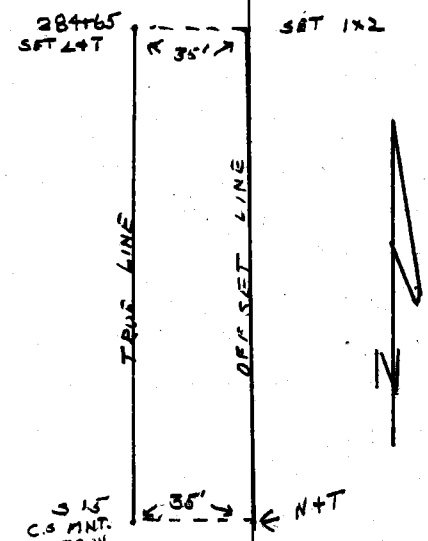
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
284+65	S-15	1	B+W	9 52	85° 08'
		2	R		86° 00'
		3	Y		86° 00'
		4	B+W	9 56	85° 02'
		5	R		86° 58'
		6	Y		86° 00'
		7	B+W	10 00	86° 00'
		8	R		86° 00'
		9	Y		86° 00'
		10	B+W	10:04	86° 00'
		11	R		86° 00'
		12	Y		86° 00'
		13	B+W	10:06	86° 00
		14	R		86° 00'
		15	Y		86° 00'
		16	B+W	10:09	86° 00'
		17	R		
		18	Y		
		19	B+W		
		20	R		

Remarks RANGE 284+65

INSTRUMENT ON 35' OFF SET



Cotin
Range 284+65-S

Profile Notes Red. Plotted Job No. 8412 Division No. F. S. 1299 Pg. 99
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes 8.65 Date 3-6-53
No. Date Date Map No. Date

F. B. 1299 Pg. 100

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Her. Ang.		Remarks

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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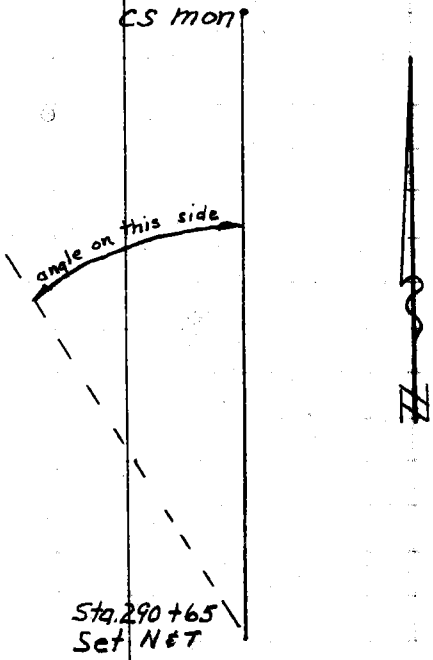
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	# Color	Time	Hor. Ang.	Remarks	
290+65	S-15	1 B+W	9.52+	70°31'	Cut in 284+65	
		2 R		67°21'		
		3 Y		61°55'		
		4 B+W	9.57-	59°25'		
		5 R		54°26'		
		6 Y		49°29'		
		7 B+W	10.01	44°51'		
		8 R		37°58'		
		9 Y		33°27'		
		10 B+W	10.04	29°28'		
		11 R		26°28'		
		12 Y		22°41'		
		13 B+W	10.06	20°14'		
		14 R		18°33'		
		15 Y		15°34'		
		16 B+W	10.09	14°15'		



Cut in 284+65

Profile
Notes Red. Plotted Job No. 8412 Division No. V F. B. 1299 Pg. 10
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Manager Notes MCH Date 3-6-53
No. Date Date Map No. Traced Date

F. B. 1299 Pg. 102 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed [illegible] Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks

76L298 307 4-50

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Do not extend notes this side of this line. 284 + 65 S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj.	Depth	Distance Remarks
1	BW	9 53	287 269	225	24	25.1	938	STANGLAND - LEAD
2	R		269 260	263		23.9	860	KVAMMEN - RECORD
3	Y		252 241	245		22.1	720	
4	BW	9 56	244 228	233	25	20.8	656	
5	R		230 214	219		19.4	578	
6	Y		220 201	207		18.2	487	
7	BW	10 00	203 190	194	25	16.9	419	
8	R		193 180	184		15.9	328	
9	Y		180 169	173		14.8	274	
10	BW	10 04	165 157	169 ~~165~~	25	13.5	229	
11	R		158 142	147		12.2	186	
12	Y		148 130	136		11.1	154	
13	BW	10 06	128 113	118	25	9.3	129	
14	R		109 93	98		7.3	111	
15	Y		81 70	74		4.9	81	
16	BW	10 10	78 57	64	25	3.9	67	
17	R							

Boat 284+65 S

Profile Notes Red ____ Plotted 8/4/12 Job No. ____ Division No. ____ F. B. 1299 Pg. 103
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes KRK Date 3-6-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 2 76+65 S BOAT

F. B. 12-99 Pg. 104 Job No. 5412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date 3-1-52 Date No. X-Sec.
Survey by E.H.& Notes KRK Notes Chkd. KRK Checked
Indexed C. Torrance Date 4-6-53 Date 4-6-53 Date No. Profile

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
								STANGLAND - LEAD
1	BW	10 29	28.9	28.2	2.7	25.5	1191	KRAMMEN - RECORD
2	R		27.9	26.9		24.2	1105	
3	Y		26.6	26.3		23.6	1020	
4	BW	10 33	25.9	24.7	2.7	22.0	900	
5	R		24.3	22.6		19.9	808	
6	Y		23.9	22.9		20.2	642	
7	BW	10 38	22.0	20.2	2.7	17.5	541	
8	R		20.8	19.2		16.5	472	
9	Y		19.9	18.3		15.6	381	
10	BW	10 43	19.0	17.3	2.8	14.5	319	
11	R		18.2	15.3		12.5	241	
12	Y		16.8	14.3		11.5	212	
13	BW	10 46	16.1	12.4	2.8	9.6	148	
14	R		14.9	11.2		8.4	115	
15	Y		13.9	8.5		5.7	73	
16			13.0					
17			12.1					
18			11.2					
19			10.3					
20			8.1					

5-1976 1000

76L298 307 4-50

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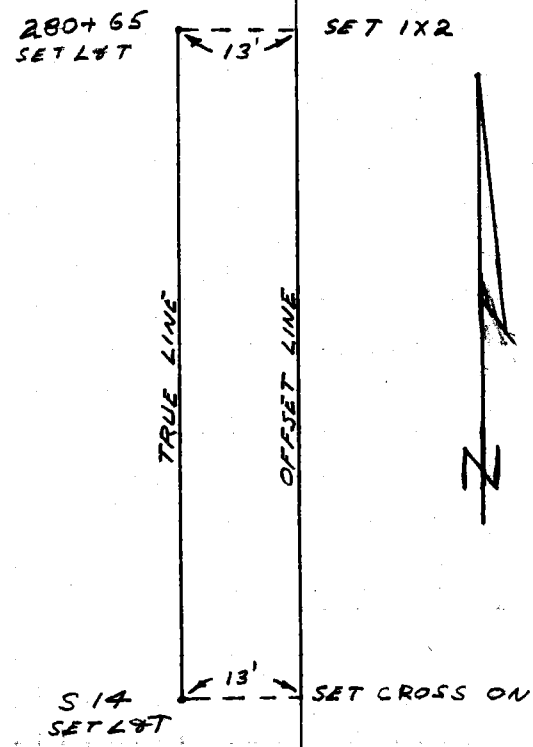
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
280+65	S-14	1	B+W	7 11	95° 06'
		2	R	7 15	94° 25'
		3	Y	7 16	94° 14'
		4	B+W	7 18	95° 06'
		5	R	7 20	95° 26'
		6	Y	7 21	95° 06'
		7	B+W	7 22	94° 52'
		8	R	7 24	96° 20'
		9	Y	7 26	95° 06'
		10	B+W	7 28	94° 31'
		11	R	7 29	94° 05'
		12	Y	7 30	96° 26'
		13	B+W	7 31	94° 16'
		14	R	7 33	95° 06'
		15	Y	7 36	95° 06'
		16	B+W	7 38	95° 06'
		17	R	7 39	95° 06'
		18	Y	7 40	95° 06'
		19	B+W	7 41	95° 06'
		20	R	7 42	95° 06'

Remarks RANGE 280+65-S

INSTRUMENT ON 13' OFFSET



CUT IN 280+65 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 105
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes 065 Date 3-6-59
No. Date Date Map No. [illegible] Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 280+65
280+65	S-14	2 1	Y	7 44	95° 06		
		2 2	B+W	7 46	95° 06	INSTRUMENT ON 13' OFFSET	
		2 3	R	7 46	95° 06		

Range 280+65 S

F. B. 1299 Pg. 106 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHR Notes MGS Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 4-50.

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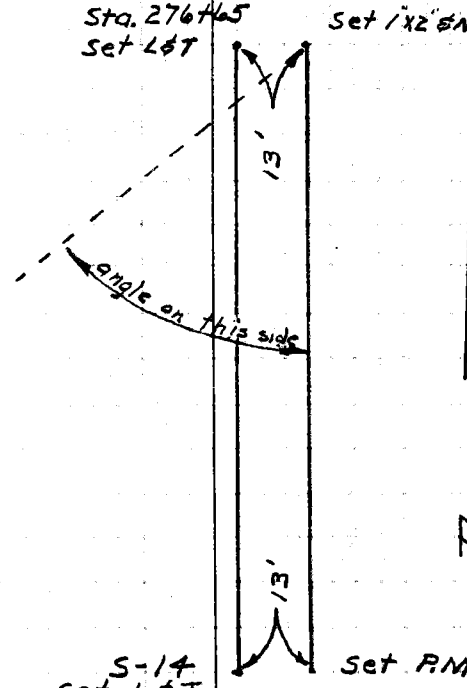
Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1299 Pg. 107
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Clkd. Checked Survey by FHB Notes RG Date 3-6-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks
276+65	S-14	13' off	13' off							Cut in 280+65
						1	B&W	7 11	76° 58'	Sta. 276+65 Set 1"x2" EN
						2	R		74° 38'	Set L&T
						3	Y		73° 22'	
						4	B&W	7 18	72° 30'	
						5	R		71° 35'	
						6	Y		69° 23'	
						7	B&W	7 23	66° 36'	
						8	R		66° 50'	
						9	Y		64° 45'	
						10	B&W	7 28	63° 06'	
						11	R		61° 18'	
						12	Y		60° 45'	
						13	B&W	7 32	56° 53'	?
						14	R		55° 35'	
						15	Y		47° 49'	
						16	B&W	7 38	41° 23'	
						17	R		35° 50'	?
						18	Y		32° 18'	?
						19	B&W	7 41	30° 28'	?
						20	R		24° 58'	?



Cut in 280+65

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
13' off	13' off						
276+65	S-14	21	Y		21° 30' ?	Cut in	280+65
		22	B&W	746	17° 31'		
		23	R		14° 35'		

Cut In 280+65-S

F. B. 1299 Pg. 108 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Surveyed by C. Fox Notes R.G. Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line. 280+65 S BOAT

Profile Notes Red. Plotted Job No. 5412 Division No. F. B. 629 Pg. 103
No. X-Sec. Notes Checked Date 4-8-53 Checked Survey of BEACH EROSION STUDIES
No. Date 4-8-53 Date Survey by KHB Notes KHB Date 3-26-53
No. Date Map No. Date

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
			290					
1	BW	7 11	280	283 ✓	14 ✓	26.9 ✓	1244	STANGLAND LEAD
2	R		281					
			269	273 ✓		25.9 ✓	1131	KVAMMEN RECORD
3	Y		279					
			254	262 ✓		24.8 ✓	1070	SCHON FELOT MOTOR
			260					
4	BW	7 18	260	251 ✓	14 ✓	23.7 ✓	981	
5	R		253					
			239	244 ✓		23.0 ✓	928	
6	Y		240					
			226	231 ✓		21.7 ✓	851	
			224					
7	BW	7 23	219	221 ✓	15 ✓	20.6 ✓	765	
8	R		233					
			209	217 ✓		20.2 ✓	763	
9	Y		227					
			203	211 ✓		19.6 ✓	705	
			223					
10	BW	7 28	202	209 ✓	15 ✓	19.4 ✓	672	
11	R		212					
			205	207 ✓		19.2 ✓	633	
			209					
12	Y		194	202 ✓		18.7 ✓	602	
			200					
13	BW	7 33	187	191 ✓	15 ✓	17.6 ✓	539	
14	R		190	183 ✓		16.8 ✓	507	
15	Y		191					
			178	182 ✓		16.7 ✓	391	
			179					
16	BW	7 39	167	171 ✓	15 ✓	15.6 ✓	315	
			171					
17	R		159	163 ✓		14.8 ✓	259	
			148					
18	Y		157	152 ✓		13.7 ✓	227	
19	BW	7 41	138	144 ✓	15 ✓	12.9 ✓	210	
20	R		131	124 ✓		10.9 ✓	172	
			121					

Boat 280+65 S

F. B. 1299 Pg. 110 | Job No. 8412 | Division No. | Notes Red. KRK | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date 4-8-53 | Date | No.

Survey [redacted] EHB | Notes KRK | Notes Chkd. LCW | Checked | X-Sec.

Indexed | Date | Date 4-8-53 | Date | No.

Boat 280+65 S

STATION	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21	Y		115	108	15	9.3	139	
22	BW	7 46	105	93	15	7.8	110	
23	R		100	75		6.0	89	
24	Y		90					
			80					
			70					

3-6-53

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761.298 307 4-50

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 Pg. 111

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. RCW. Checked _____ Survey by English Notes English Date 3-5-53

Date 4-14-53 Date _____ Map No. _____ Indexed C. Johnson Date _____

Inshore
276+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
276+65 S.	2 47	18 89		16 42	L.&T.
5' L.			1 5	17 4	Top rocks
T.P.	7 80	13 69	13 00	5 89	
35' L.			14 00	-0 3	bot. rocks

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76L298 307 10-51

F.B. 1299 PG. 112 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by English Notes English Notes Chkd. [illegible] Checked _____ X-Sec.

Indexed [illegible] C. Johnson Date _____ Date 9-14-53 Date _____ No. _____

Inshore
272+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
272+65 S.	0 80	21 00		20 20	
3' L.			0 3	20 7	
T.P.	5 02	14 70	11 32	9 68	
32' L.			14 8	-0 1	
					L.&T.
					Top rocks
					bot. rocks

76L298 307 10-51

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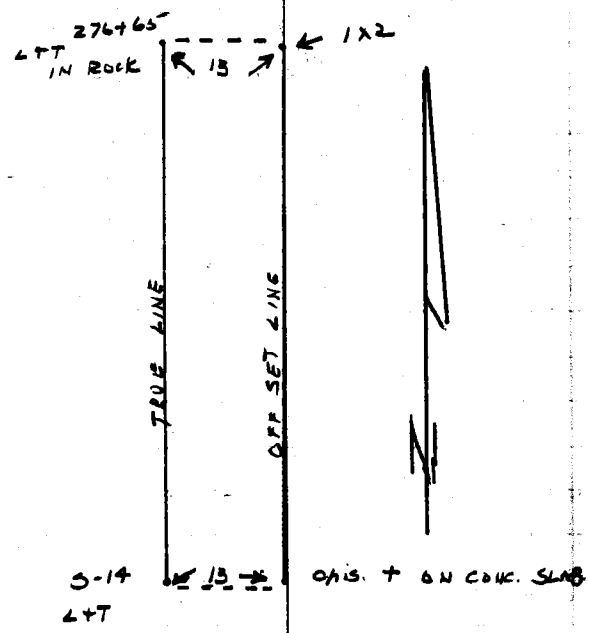
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
276+65	S-14	1	B+W	1028	95° 31'	RANGE 276+65 INSTRUMENT ON 13' OFF SET
		2	R		95° 49'	
		3	Y		95° 44'	
		4	B+W	1033	97° 15'	
		5	R		95° 06'	
		6	Y		96° 51'	
		7	B+W	1037	95° 06'	
		8	R		96° 07'	
		9	Y		96° 21'	
		10	B+W	1042	96° 59'	
		11	R		95° 06'	
		12	Y		95° 06'	
		13	B+W	1045	95° 06'	
		14	R		95° 06'	
		15	Y		95° 06	
		16	B+W			
		17	R			
		18	Y			



RANGE 276+65 S

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes M.G.S. Date 3-6-53
No. Date Date Map No. Indexed Date

F. B. 1299 Pg. 113

76L298 307 4-50

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Do not extend notes this side of this line.

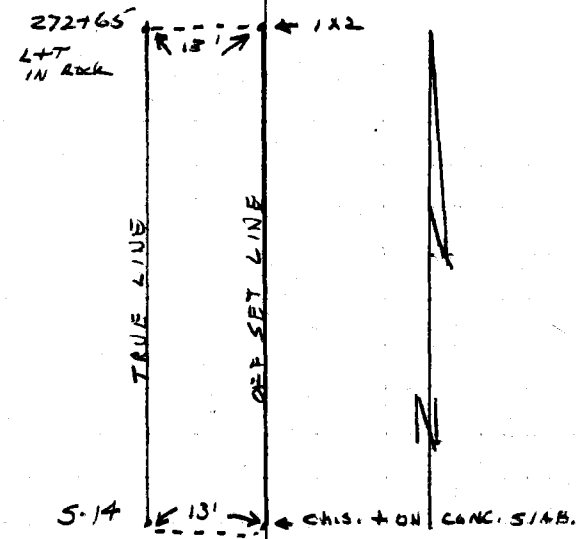
STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
272+65	S-14	1	B+W	11 33	94° 16'
		2	R		94° 28'
		3	Y		94° 10'
		4	B+W	11 36	95° 06'
		5	R		95° 06'
		6	Y		95° 06'
		7	B+W	11 39	95° 06'
		8	R		95° 06'
		9	Y		95° 06'
		10	B+W	11 42	92° 36'
		11	R		95° 06'
		12	Y		95° 06'
		13	B+W	11 45	95° 06'
		14	R		95° 06'
		15	Y		95° 06'
		16	B+W	11 49	95° 06'

Range 272+65 S

Remarks

RANGE 272+65

INSTRUMENT ON 13' OFF SET



F. B. 1299 Pg. 114

Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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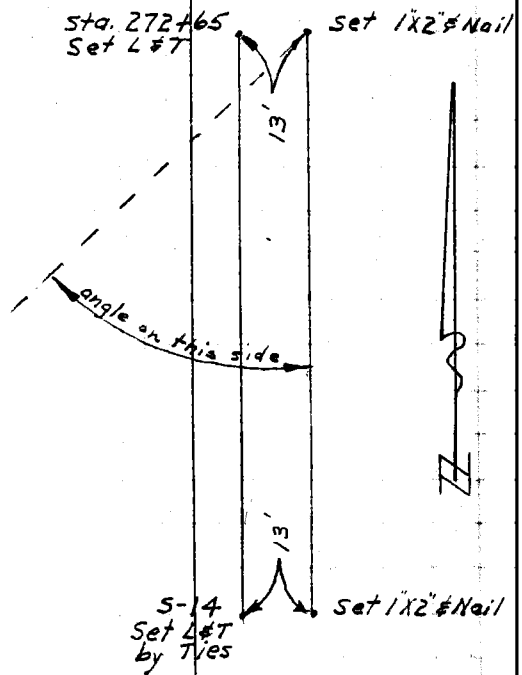
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1238 Pg.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd Checked Survey by F.H.B. Notes B.G. Date 3-6-52
No. Date Date Map No. Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	# Color	Time	Hor. Ang.		Remarks
13' off	13' off					
272+65	S-14	1 B&W	10 29	76° 41'	✓	Cut in 276+65
		2 R		75° 32'	✓	
		3 Y		73° 54'	✓	
		4 B&W	10 33	72° 38'	✓	
		5 R		68° 18'	✓?	
		6 Y		63° 40'	✓?	
		7 B&W	10 38	57° 40'	✓?	
		8 R		54° 14'	✓	
		9 Y		47° 45'	✓	
		10 B&W	10 42	42° 28'	✓	
		11 R		34° 05'	✓	
		12 Y		30° 54'	✓	
		13 B&W	10 45	22° 47'	✓	
		14 R		19° 52'	✓	
		15 Y		12° 35'	✓?	



Cut in 276+65

76L298 307 4-50

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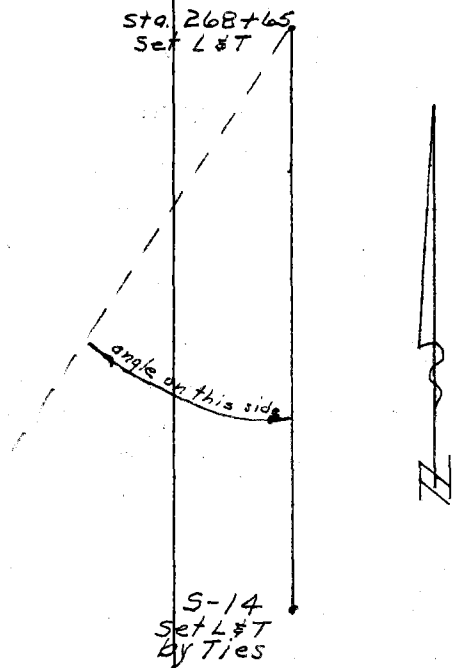
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
268+65	S-14	1	B+W	11.33	76°57'	✓	Cut in 272+65
		2	R		75°28'	✓	
		3	Y		75°48'	✓	
		4	B+W	11.36	72°33'	✓	
		5	R		69°49'	✓	
		6	Y		65°28'	✓	
		7	B+W	11.39+	60°23'	✓	
		8	R		55°31'	✓	
		9	Y		45°39'	✓	
		10	B+W	11 43	37°19'	✓	
		11	R		30°21'	✓	
		12	Y		23°44'	✓	
		13	B&W	11 45	20°06'	✓	
		14	R		17°25'	✓	
		15	Y		10°50'	✓	
		16	B&W	11 50	11°05'	✓	



CUT IN 272+65-S

F. B. 1299 Pg. 116
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes R.G. Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line. 272 + 65 S BOAT

STATION		S. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	11 34	29 9 28 3	28.8	3.0	25.8	1320	
2	R		28 5 27 1	27.6		24.6	1195	
3	Y		27 8 26 0	26.6		23.6	1000	
4	BW	11 37	26 40 25 0	25.5	3.0	22.5	994	
5	R		24 8 23 2	23.7		20.7	878	
6	Y		23 1 22 0	22.3		19.3	735	
7	BW	11 40	21 6 20 2	20.7	3.0	17.7	609	
8	R		20 1 19 0	19.4		16.4	516	
9	Y		18 9 17 8	18.2		15.2	375	
10	BW	11 43	17 5 16 3	16.7	3.0	13.7	293	
11	R		15 8 14 3	14.8		11.8	221	
12	Y		13 7 12 5	12.9		9.9	168	
13	BW	11 46	12 9 11 4	11.9	3.0	8.9	140	
14	R		12 0 10 4	10.9		7.9	121	
15	Y		8 0 6 9	7.3		4.3	80	
16	BW	11 49	9 0 7 2	7.8	3.0	4.8	75	

Boat 272+65 S

Profile Notes Red. Lower Plotted Job No. 64 Division No. F.S. 1299 Pg. 112
No. Date 3-20-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked Survey by FHB Notes KRK Date 3-6-52
No. Date 4-6-53 Date Map No. Indexed C. Johnson Date

76L298 307 4-50

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Do not extend notes this side of this line. 268+65S BOAT

STATION		B. S.	H. I.	F. S.	ELEV.		
#	COLOR	TIME	MEAS. DEPTH				REMARKS
1	BCO	1212	294				
			283				
2	R		277				
			260				
3	Y		272				
			250				
4	B						
5	R				VOID		
6	Y						
7						Cut in transit	
8						skidded off mark	
9							
10							
11							

Boat 268+65-S

F. B. 1299 PG. 118 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by EHB Notes FRK Notes Chkd. Checked X-Sec.
Indexed B. Johnson Date 3-6-53 Date Date No.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 PG. 119

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by English Notes English Date 3-5-53

Date _____ Date _____ Map No. _____ Indexed Johnson Date _____

Inshore
268+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	
268+65 S.	0 60	16 36		15 76	L.&T.
3' L.			0 0	16 4	Top rocks
T.P.	5 00	11 72	9 64	6 72	
32' L.			11 5	+0 2	

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76L298 307 10-51

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. 12 PG. 12 Job No. 8412 Division No. Notes Red. Plotted
Survey of Beach Erosion Studies Date Date
Survey by English Notes English Notes Chkd. Checked
Indexed A. A. Johnson Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
264+65 S.	000	16 58		16 58		1 x 2
17' L.			0 8	15 8		T. Br K.
32' L.			9 1	7 5		B. "
47' L.			2 8	13 8		T. rocks.
60' L.	1 65	6 42	11 81	04 77		B. "
87' L.			4 9	1 5		under water
118' L.			7 2	-0 8		" "
						" "

Inshore
264+65 S.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks RANGE 268+65
268+65	S-14	1	B+W	1223	94° 36'	
		2	R		95° 06'	
		3	Y		95° 06'	
		4	B+W	1227	95° 06'	
		5	R		95° 06'	
		6	Y		94° 27'	
		7	B+W	1230	94° 04'	
		8	R		95° 06'	
		9	Y		95° 06'	
		10	B+W	1234	95° 06'	
		11	R		95° 06'	
		12	Y		95° 06'	
		13	B+W	1237	95° 06'	
		14	R		95° 06'	
		15	Y		95° 06'	

RANGE 268+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 121
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by BANCHARD Notes M.G.S. Date 3-6-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 264+65
264+65 S-13	1	B+W	1 02	90° 00'	✓	
	2	R		90° 00'	✓	
	3	Y		90° 00'	✓	
	4	B+W	1 05	90° 00'	✓	
	5	R		90° 00'	✓	
	6	Y		89° 23'	✓	
	7	B+W	1 08	90° 00'	✓	
	8	R		90° 00'	✓	
	9	Y		90° 00'	✓	
	10	B+W	1 11	90° 00'	✓	
	11	R		90° 00'	✓	
	12	Y		90° 00'	✓	
	13	B+W	1 16	90° 00'	✓	
	14	R		90° 00'	✓	
	15	Y		84° 23'		
	16	B+W	1 20	90° 00'		

Range 264+65 S

F. B. 1299 PG. 122 Job No. 24/12 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes MGS Notes Chkd. Checked
Indexed R. C. Johnson Date Date Date No.

76L298 307 4-50

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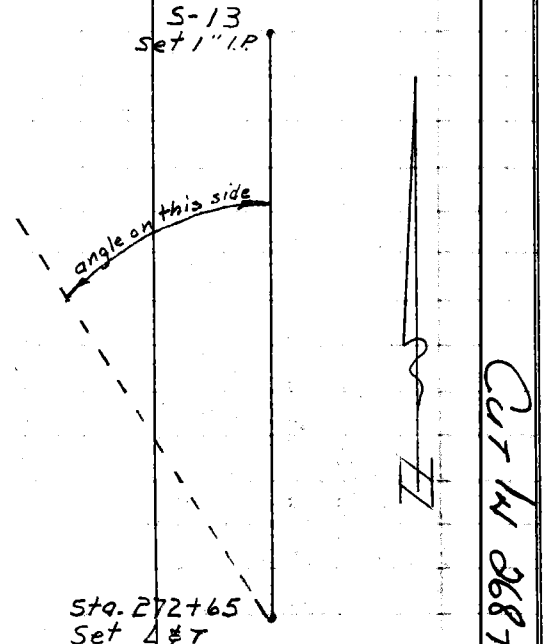
Profile Notes Red No. Date
X-Sec. Notes Chkd. No. Date
Plotted Date Checked Date
Job No. 8412 Division No. V Survey of Beach Erosion Studies
Survey by F.H.B. Notes R.G. Date 3-6-53
Map No. Date
F. B. 1299 Pg. 123

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks
272+65	S-13	1 B&W	12 24	70° 31' ✓	Cut in 268+65
		2 R		68° 45' ✓	
		3 Y		67° 15' ✓	
		4 B&W	12 27	64° 53' ✓	
		5 R		61° 24' ✓	
		6 Y		58° 27' ✓	
		7 B&W	12 31	54° 52' ✓	
		8 R		49° 43' ✓	
		9 Y		46° 23' ✓	
		10 B&W	12 34	39° 21' ✓	
		11 R		31° 06' ✓	
		12 Y		26° 27' ✓	
		13 B&W	12 37	22° 15' ✓	
		14 R		17° 26' ✓	
		15 Y		10° 15'	



Cut in 268+65

76L298 307 4-50

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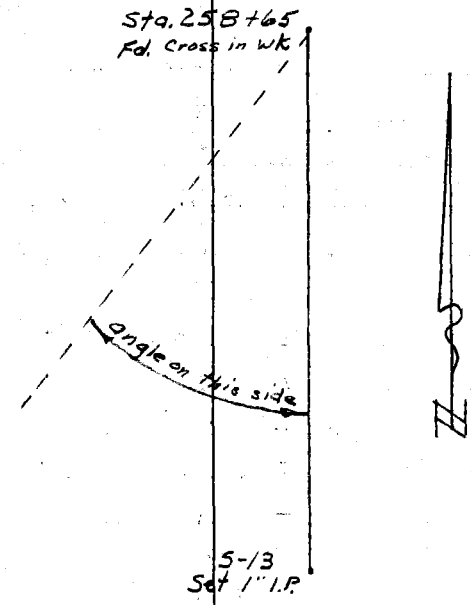
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
258+65	S-13	1	B&W	1 02	72° 58'	✓	Cut in 264+65
		2	R		64° 18'	✓	
		3	Y		62° 00'	✓	
		4	B&W	1 06	59° 20'	✓	
		5	R		56° 10'	✓	
		6	Y		52° 25'	✓	
		7	B&W	1 09	48° 55'	✓	
		8	R		45° 30'	✓	
		9	Y		42° 08'	✓	
		10	B&W	1 11	38° 52'	✓	
		11	R		32° 50'	✓	
		12	Y		26° 10'	✓	
		13	B&W	1 16	22° 08'	✓	
		14	R		19° 30'	✓	
		15	Y		16 40	? ✓	

Cut in 264+65



F. S. 12 99 Pg. 124
Job No. 8416 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H.B. Notes R.G. Notes Chkd. Checked X-Sec.
Indexed H. Johnson Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line. 268+65S

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance / Remarks
1	BW	12 23	31 2 / 29 9	30.3	3.1	27.2	1465
2	R		29 2 / 28 0	28.4		25.3	1324
3	Y		28 4 / 26 8	27.3		24.2	1205
4	BW	12 28	26 4 / 25 3	25.7	3.1	22.6	1050
5	R		24 8 / 23 6	24.0		20.9	871
6	Y		23 2 / 22 0	22.4		19.3	744
7	BW	12 31	22 2 / 21 0	21.4	3.1	18.3	630
8	R		20 6 / 19 8	20.2		17.1	526
9	Y		19 9 / 18 7	19.1		16.0	460
10	BW	12 35	19 0 / 16 7	17.5	3.1	14.4	351
11	R		16 6 / 15 1	15.6		12.5	253
12	Y		15 2 / 14 2	14.5		11.4	207
13	BW	12 38	14 0 / 12 7	13.1	3.1	10.0	168
14	R		12 7 / 10 8	10.9		7.8	128
15	Y		9 2 / 7 5	8.1		5.0	71
16	BW						

Boat 268+65S

Profile Notes Red. Lower Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 125
No. ____ Date 3-30-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 3-6-53
No. ____ Date 3-6-53 Date ____ Map No. ____ Chief Johnson Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 264+65 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance Dist.
1	BW	1 03 / 13 03	300 / 291	29.4	3.0	26.4	1948
2	R		287 / 275	27.9		24.9	1250
3	Y		270 / 261	26.4		23.4	1121
4	BW	1 06 / 13 06	254 / 240	24.5	3.0	21.5	1010
5	R		245 / 231	23.6		20.6	892
6	Y		231 / 220	22.4		19.4	790
7	BW	1 09 / 13 09	219 / 208	21.2	3.0	18.2	687
8	R		196 / 184	18.8		15.8	610
9	Y		184 / 174	17.7		14.7	540
10	BW	1 12 / 13 12	175 / 160	16.5	3.0	13.5	480
11	R		158 / 148	15.1		12.1	385
12	Y		142 / 135	13.9		10.9	293
13	BW	1 17 / 13 17	130 / 119	12.3	3.0	9.3	242
14	R		130 / 110	11.7		8.7	210
15	Y		90 / 82	8.5		5.5	182
16	BW	1 20 / 13 20	52 / 43	4.6	3.0	1.6	

Boat 264+65 S

3-6-53

F. B. 1299 Pg. 126 Job No. 8416 Division No. V Notes Red. LCW Plotted Profile
Survey of BEACH EROSION STUDIES Date 3-31-53 Date No.
Survey by FHB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed C. Johnson Date Date 4-6-53 Date No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 264+65 Sight on 262+65		
262+65 S	1 31	17 97		16 66	.		L. & T.
32' L.			3 6	14 4	.		Brk.
46' L.			7 2	10 8	.		"
81' L.			9 8	8 2	.		"
129' L.			12 0	6 0	.		"
T.P.	1 35	5 22	14 10	3 87			1 x 2
170 L			5 3	-0 1	41° 34'.	177	under water
195 L			8 3	-3 1	44° 14'.	195	" "
237 L			9 2	-4 0	49° 51'.	237	" "
290 L			11 9	-6 7	55° 19'.	289	" "
342 L			14 3	-9 1	59° 40'.	342	" "
366 L			15 3	-10 1	61° 19'.	366	" "

— NOTE —
For gage reading
See page -9

Inshore
262+65 S.

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 Pg. 127
X-Sec.
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
Survey by English Notes English Date 3-9-53
Map No. ____ Date ____ Index Johnson Date ____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 254+65		
					Sight on 258+65		
258+65 S.	0 15	17 09		16 94			L.&T.
6 L.			1 0	16 1			Brk.
88 L.			2 6	14 5			"
200' L.			3 5	13 6			"
250' L.			4 7	12 4			"
275' L.			6 5	10 6			"
325' L.			10 0	7 1			"
T.P.	1 18	6 27	12 00	5 09			1 X 2
380			4 9	1 4	43° 34.'	380	under water
408			7 9	-1 6	45° 43.'	410	" "
464			10 2	-3 7	49° 22.'	466	" "
505			12 1	-5 8	51° 45.'	507	" "
548			13 3	-7 0	54° 01.'	550	" "
589			14 1	-7 8	55° 52.'	590	" "

Inshore 258+65 S.

F.B. 12 99 PG. 128 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by English Notes English Notes Chkd. ____ Checked ____ X-Sec.
Indexed K. C. Johnson Date ____ Date ____ No. ____

76L298 307 4-50

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Do not extend notes this side of this line.

RANGE 262+65 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
262+65 S S-13	1	B&W	10 04	90° 00		
	2	R		90° 00		
	3	Y		89 25		
	4	B&W	10:13	90° 00	✓	
	5	R		90 26	✓	
	6	Y		90 00	✓	
	7	B&W	10:25	89 24	✓	
	8	R		90° 00	✓	
	9	Y		90 00	✓	
	10	B&W	10:36	90° 18	✓	
	11	R		89 46	✓	
	12	Y		90° 00	✓	
	13	B&W	10:43	89 26	✓	
	14	R		90 48	✓	
	15	Y		88 50	✓	
	16	B&W	10:49	90 51	✓	
	17	R		90 00	✓	
	18	Y		90 00	✓	
	19	B&W	10:54	90 00	✓	
	20	R		90 00	✓	

RANGE 262+65 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 129
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes FHB Date 3-9-53
No. ____ Date ____ Date ____ Map No. ____ Made Job Tracing Date ____

F. B. 1299 Pg. 130 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

Survey by | Notes | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight					
At	#	Color	Time	Hor. Ang.	

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LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

761.298 307 4-50

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes VS Date 3-9-53
No. Date Date Map No. Checked Date

F. B. 129 Pg. 13

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On		# Color	Time	Hor. Ang.		RANGE 258+65
258+65	S-13 1	B+W	11:19	90°00'	out	
	2	R		89°46'	out	
	3	Y		90°00'	-	
	4	B+W	11:24	89°44'	✓	
	5	R		90°00'	✓	
	6	Y		90°00	✓	
	7	B+W	11:31	90°26'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	12:05	90°18'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	12:09	90°00'	✓	
	14	R		89°11'	✓	
	15	Y		89°30'	✓	
	16	B+W	12:14	90°00'	✓	
	17	R		90°00'	✓	
	18	Y		90°00'	✓	
	19	B+W	12:17	90°00'	✓	
	20	R		90°00	✓	

RANGE 258+65 S

76L298 307 4-50

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F. B. 1149 Pg. 132 Job No. 8412 Division No. Notes Red. Plotted. Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by BLANCHARD Notes US Notes Chkd. Checked. X-Sec.
Indexed C. Johnson Date 3-9-53 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 254+65-S
254+65 S-13	1	B+W	12:43	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'		
	4	B+W	12:52	89° 45'		
	5	R		90° 00'		
	6	Y		90° 45'		
	7	B+W	1:04	89° 25'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	1:07	89° 33'		
	11	R		90° 29'		
	12	Y		87° 56'		

Range 254+65 S

76L298 307 4-50

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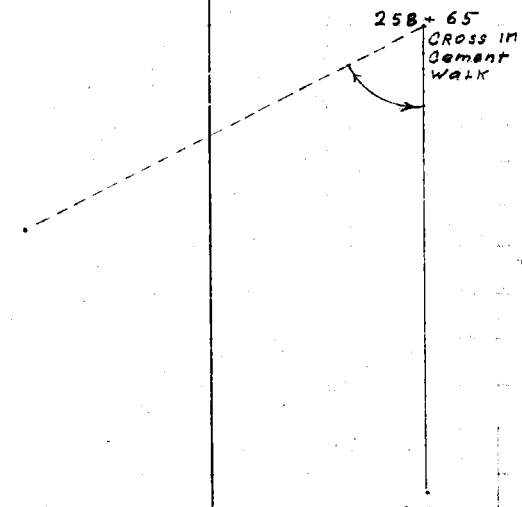
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
258+65	S-13	1	B&W			Cut in 262+65
		2	R			
		3	Y			
		4	B&W	10:14	78°20'	
		5	R		78 17	
		6	Y		77 25*	
		7	B&W	10 25	76 17	
		8	R		76 06	
		9	Y		75 37	
		10	B&W	10 36	73 39	
		11	R		70 51	
		12	Y		69 04	
		13	B&W	10 43	66 35	
		14	R		65 42	
		15	Y		61 54	
		16	B&W	10 49	58 51	
		17	R		53 15	
		18	Y		41 36	Next* to west side of breakwater
		19	B&W	10 55	40 20	
		20	R		36 20	



Cut in 262+65 S

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. V F. B. 1299 Pg. 132
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes JV Date 3/19/53
No. ____ Date ____ Date ____ Map No. ____ Kind Tobinson Date ____

76L298 307 4-50

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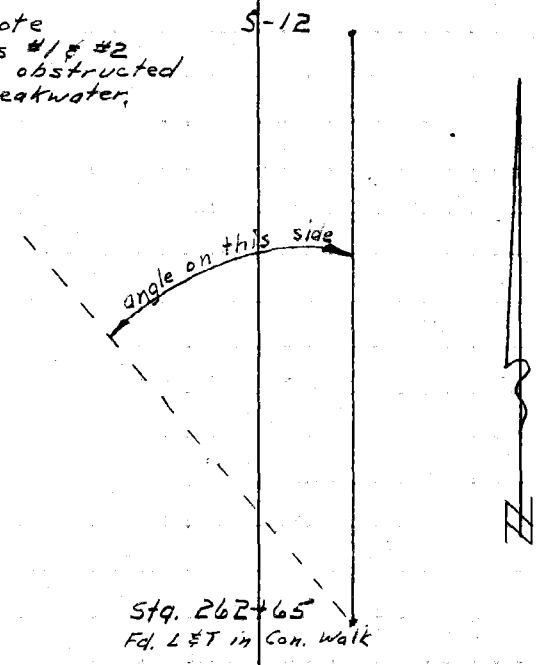
STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
262+65	~~S-13~~ S-12	1	B&W			Cut in 258+65
		2	R			Note Shots #1 & #2 were obstructed by breakwater.
		3	Y		78° 31'	
		4	B&W	11 25	78° 25'	
		5	R		78° 01'	
		6	Y		77° 31'	
		7	B&W	11 31	76° 49'	
		8	R	12 00	76° 41'	
		9	Y		75° 51'	
		10	B&W	12 05	75° 03'	
		11	R		75 04'	
		12	Y		73° 57'	
		13	B&W	12 09	72° 45'	
		14	R		70° 10'	
		15	Y		68° 15'	
		16	B&W	12 14	66° 16'	
		17	R		63° 26'	
		18	Y		57° 34'	
		19	B&W	12 17	54° 29'	
		20	R		50° 47'	



Cut In 258+65 S

F. B. 1299 Pg. 134
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by EHB Notes JV Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

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Profile Notes Red. Law Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 Pg. 135
No. ____ Date 3-31-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by Blanchard Notes FHB Date 3-9-53
No. ____ Date 4-6-53 Date ____ Map No. ____ Interim Johnson Date ____

STATION		B. S.	H. I.	F. S.	ELEV.			262+65 Boat
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	10 03	35 5 / 34 0	34.5	0.8	33.7		
2	R	10 06	32 6 / 31 5	31.9	0.8	31.1		
3	Y		32 3 / 31 0	31.4		30.6		
4	B&W	10 12	28 7 / 27 0	27.6	0.7	26.9	1915	
5	R	10 15	26 0 / 24 5	25.0	0.7	24.3	1827	
6	Y		26 2 / 25 5	25.7		25.0	1778	W. edge brk water
7	B&W	10 24	24 9 / 23 9	24.2	0.7	23.5	1689	E edge " "
8	R		26 0 / 25 3	25.5		24.8	1603	
9	Y		27 6 / 27 0	27.2		26.5	1552	
10	B&W	10 35	26 3 / 25 6	25.8	0.6	25.2	1334	
11	R		24 3 / 23 8	24.0		23.4	1161	
12	Y		21 7 / 21 0	21.2	0.6	20.6	1045	
13	B&W	10 42	20 3 / 19 8	20.0		19.4	942	
14	R		17 6 / 17 1	17.3		16.7	854	
15	Y		17 0 / 16 0	16.3		15.7	780	
16	B&W	10 48	14 0 / 13 0	13.3	0.6	12.7	641	
17	R		13 3 / 12 0	12.4		11.8	533	
18	Y		12 1 / 11 2	11.5		10.9	353	
19	B&W	10 53	10 5 / 9 0	9.5	0.6	8.9	338	
20	R		8 4 / 7 3	7.7		7.1	290	

Boat 262+65 S

F. B. 1299 Pg. 136 Job No. 8412 Division No. Notes Red. Lewis Plotted Date 3-31-52 Profile No. X-Sec.
Survey of BEACH EROSION STUDIES Notes Chkd. KRK Checked Date 4-6-53 No.
Survey by Blanchard Notes V ANDERSON Date
Index C. Johnson Date

76L300 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.			258+65 S Boat
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	11 19	290 / 275	28.0	0.6	27.4 out		
2	R		280 / 264	26.9		26.3 out		
3	Y		268 / 250	25.6		25.0	1967	
4	B&W	11 24	258 / 243	24.8	0.6	24.2	1930	
5	R		239 / 220	22.6		22.0	1873	
6	Y		218 / 202	20.7		20.1	1800	
7	B&W	11 30	230 / 216	22.1	0.6	21.5	1720	W. edge brk water
8	R	11 59	150 / 145	14.7	0.7	14.0	1680	E edge brk water
9	Y		125 / 120	12.2		11.5	1590	
10	B&W	12 04	135 / 130	13.2	0.7	12.5	1500	
11	R		161 / 155	15.7		15.0	1490	
12	Y		176 / 170	17.2		16.5	1390	
13	B&W	12 08	181 / 175	17.7	0.7	17.0	1290	
14	R		165 / 160	16.2		15.5	1095	
15	Y	1	150 / 145	14.7		14.0	990	
16	B&W	12 13	130 / 125	12.7	0.8	11.9	910	
17	R		120 / 115	11.7		10.9	800	
18	Y		103 / 97	9.9		9.1	630	
19	B&W	12 16	87 / 80	8.2 ~~8.6~~	0.8	7.4	560	
20	R		57 / 50	5.2		4.4	495	

Boat 258+65 S

3-9-53

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 257+65		
					Sight on 254+65		
254+65 S.	1 47	18 71		17 24			"X"
6 L.			1 7	17 0			Brk.
100' "			6 6	12 1			"
200' "			9 3	9 4			"
300' "			9 9	8 8			"
400' "			8 9	9 8			"
500' L.			7 2	11 5			"
546 "			9 6	9 1			"
600' L.			14 5	4 2			"
T.P.	1 26	5 42	14 55	4 16			1x2
~~661~~			4 9	0 5	65° 27'	657	under water
~~720~~			6 6	-1 2	67° 17'	717	" "
~~787~~			8 1	-2 7	69° 04'	784	" "
~~892~~			8 9	-3 5	70° 32'	849	" "
~~949~~			9 6	-4 2	71° 24'	891	" "
~~1027~~			10 2	-4 8	72° 24'	945	" "
			11 5	-6 1	73° 43'	1027	" "

Inshore
254+65 S.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 Pg. 137
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by English Notes English Date 3-9-53
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 250+00		
					Sight on 253+10		
253+10	2 46	19 83		17 37	.		"X"
6' L.			2 8	17 0	.		Brk.
70' L.			2 0	17 8	.		"
100' L.			2 9	16 9	.		"
200' L.			6 9	12 9	.		"
300' L.			8 4	11 4	.		"
400' L.			8 7	11 1	.		"
T.P.	1 42	12 60	8 65	11 18	.		1x2
450' L.			5 3	7 3	.		Brk.
500' L.			6 2	6 4	.		"
550' L.			9 2	3 4	.		"
T.P.	1 10	4 55	9 15	3 45			1x2
665			5 2	-0 6	64° 56'	663	under Water
683			6 2	-1 6	65° 31'	680	" "
760			7 7	-3 1	67° 45'	758	" "
830			10 0	-5 4	69° 31'	830	" "
900			12 5	-7 9	70° 56'	897	" "
980			15 3	-10 7	72° 19'	972	" "

Inshore 253+10 S.

F.B. 1299 PG. 138 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	# Color	Time	Hor. Ang.		Remarks RANGE 253+10-S
253+10	S-12 1	B+W	6:48	89°38'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	6:53	90°15'	✓	
	5	R		90°24'	✓	
	6	Y		90°22'	✓	
	7	B+W	6:57	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°35'	✓	
	10	B+W	7:06	90°18'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	7:10	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°00'		
	16	B+W	7:12	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B+W	7:16	90°00'		

RANGE 253+10 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1299 Pg. 739
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-10-53
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

F. B. 1-99 Pg. 140 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date No.
Survey by BLANCHARD Notes J.S Date 3-10-53 Notes Chkd. Checked X-Sec.
Indexed K. G. Johnson Date Date No.

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
250+00 S-12	1	B+W	7:30	90° 00'		H.C. 1851 RANGE 250+00 S
	2	R		90° 25'		
	3	Y		90° 39'		
	4	B+W	7:35	90° 13'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	7:49	90° 53'		
	8	R		90° 24'		
	9	Y		90° 00'		
	10	B+W	7:53	89° 45'		
	11	R		90° 00'		
	12	Y		90° 00'		
	13	B+W	7:58	90° 00'		
	14	R		90° 00'		
	15	Y		90° 17'		
	16	B+W	8:02	90° 00'		
	17	R		90° 00'		
	18	Y		90° 31'		

RANGE 250+00 S

76L298 307 4-50

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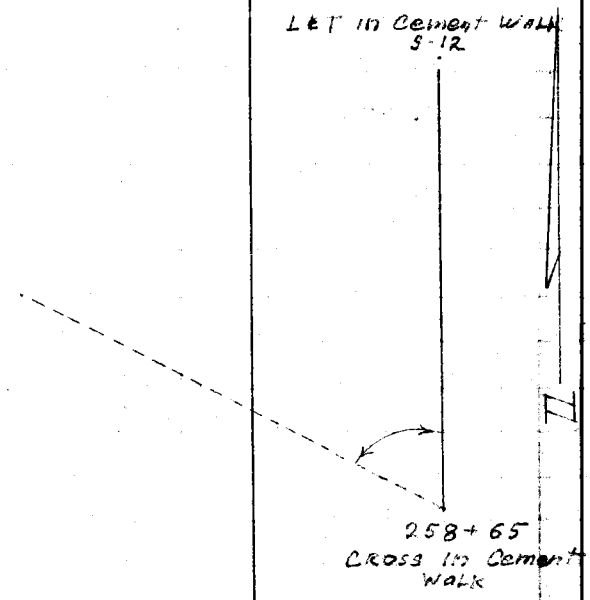
Profile Notes Red____ Plotted____ Job No. 8418 Division No. V F. B. 1279 Pg. 44
No.____ Date____ Date____ Survey of Beach Erosion Study
X-Sec. Notes Chkd.____ Checked____ Survey by Blanchard Notes J.K. Date 3/9/61
No.____ Date____ Date____ Map No.____ Checked Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At / On		# Color	Time	Hor. Ang.	
258+65	S-12	1 B&W	12 44	7651	Cut in 254+65
		2 R		7625	
		3 Y		7621	
		4 B&W	12 53	7551	
		5 R		7526	
		6 Y	1 03	7226	
		7 B&W	1 05	7255	
		8 R		7106	
		9 Y		7021	
		10 B&W	1 07	6903	
		11 R		6624	
		12 Y		6604	



Curve 254+65 S

76L298 307 4-50

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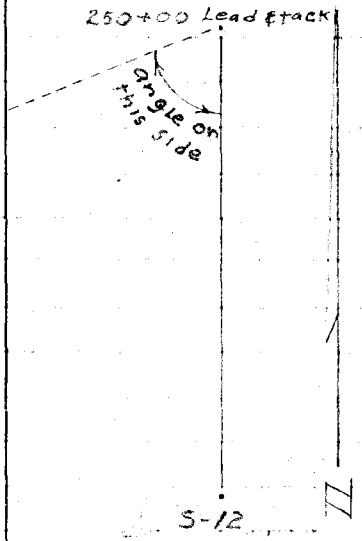
F. B. 12 99 Pgs. 142 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No.
Survey by C. Johnson Notes Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On #	Color	Time	Hor. Ang.	Remarks
250+00 S-12		1				B & W	6 48		Cut in 253+10
		2				R			
		3				Y			
		4				B & W	6 53		
		5				R			
		6				Y			
		7				B & W	6 53		
		8				R			
		9				Y			
		10				B & W			
		11				R			
		12				Y			
		13				B & W			
		14				R			
		15				Y			
		16				B & W	7 13		
		17				R			
		18				Y			
		19				B & W	7 16		

Cut in 253+10 S



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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. 254+65 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	12:43	20.5 19.0	19.5	10 ✓	18.5 ✓	1712	Anderson Sounding
2	R		19.5 17.7	18.3		17.3 ✓	1661	Stangeland Motor
3	Y		18.5 17.0	17.5		16.5 ✓	1649	Shoemaker Notes
4	B&W	12:52	17.4 15.9	16.4	10 ✓	15.4 ✓	1543	
5	R		17.2 15.5	16.1		15.1 ✓	1526 West	Edge of Brk wtr
6	Y	13:02 1:02	2.5 2.0	2.2	11 ✓	1.1 ✓	1320 East	" " " "
7	B&W	1:04	6.3 5.9	6.0	11 ✓	4.9 ✓	1258	
8	R	13:04	7.8 7.2	7.4		6.3 ✓	1161	
9	Y		8.5 8.1	8.2		~~8.1~~ 7.1	1112	
10	B&W	1:06	7.5 7.0	7.2	11 ✓	~~7.1~~ 6.1	1014	
11	R	13:06	5.5 5.1	5.2		4.1 ✓	933	
12	Y		5.0 4.5	4.7		3.6 ✓	830	

Boat 254+65 S

Profile Notes Red. Rew. Plotted ____ Job No. 9412 Division No. ____ F.B. 1299 Pg. 1173
No. ____ Date 3-31-52 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. KRK Checked ____ Survey by Blanchard Notes 3-9-53 Date ____
No. ____ Date 4-6-53 Date ____ Map No. ____ Kind of Tide Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 253 + 10 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			29.0					Edison outlet - HARD BOT.
1	B&W	6:49	28.0	28.3	41	242	1828	Anderson Sounding
			28.0					
2	R		25.5	26.3		222	1778	Stangeland Motor
			26.4					
3	Y		24.5	25.1		210	1770	Shoemaker Notes
			24.1					
4	B&W	6:53	22.8	23.2	40	192	1640	
			22.2					
5	R		20.1	20.8		168	1559	Bottom Hard
			20.4					
6	Y		19.0	19.5		155	1520	
			19.8					
7	B&W	6:58	18.1	18.7	39	148	1480	
			18.2					
8	R		16.3	16.9		130	1434	
			17.0					
9	Y		15.0	15.7		118	1382	
			15.5					
10	B&W	7:06	14.0	14.5	38	107	1238	
			18.4					
11	R		16.5	17.1		133	1118	
			17.5					
12	Y		15.5	16.2		124	1099	
			16.0					
13	B&W	7:10	15.0	15.3	38	115	1021	
			16.0					
14	R		14.0	14.7		109	1013	
			13.8					
15	Y		13.0	13.3		95	952	
			12.5					
16	B&W	7:13	10.5	11.2	38	74	881	
			10.5					
17	R		8.5	9.2		54	839	
			8.2					
18	Y		7.0	7.4		36	782	
			7.3					
19	B&W	7:16	5.9	6.4	37	27	746	
20								

Boat 253+10 S

3-10-53

F. B. D99 Pg. 144 Job No. Division No. Notes Red. Rew Plotted Profile
Survey of Date 3-31-53 Date No.
Survey by Notes 4-10-53 Notes Chkd. KRK Checked X-Sec.
Indexed C. Johnson Date 4-6-53 Date No.

76L298 307 5-49

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 245+00		
					Sight on 250+00		
250+00	2 93	20 58	✓	17 65	✓ F.B. 1284-12		L.&T.
6' L.			2 0	18 6	✓		Brk.
100 L.			4 6	16 0	✓		"
189			7 9	12 7	✓ 20°52' ✓	191	"
318			7 8	12 8	✓ 32°32' ✓	319	"
T.P.	1 00	11 63	✓ 9 95	10 63	✓		1x2
385			4 5	7 1	✓ 37°44' ✓	387	Brk.
470			8 0	3 6	✓ 43°19' ✓	529	"
T.P.	1 69	5 32	✓ 8 00	3 63	✓		1x2
528			4 8	0 5	✓ 46°36' ✓		under water
598			7 1	-1 8	✓ 50°10' ✓	599	" "
650			8 8	-3 5	✓ 52°35' ✓	654	" "
717			10 4	-5 1	✓ 55°15' ✓	720	" "
768			11 1	-5 8	✓ 57°01' ✓	770	" "
830			11 9	-6 6	✓ 58°59' ✓	832	" "
876			12 2	-6 9	✓ 60°23' ✓	880	" "
959			12 2	-6 9	✓ 62°28' ✓	959	" "

Inshore
250+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1279 PG. 145
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion
Notes Chkd. [illegible] Checked ____ Survey by English Notes English Date 3-9-53
Date 4-9-53 Date ____ Map No. 1 Indexed [illegible] Johnson Date ____

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 240+00		
					Sight on 245+00		
245+00 S.	3 06	20 61 ✓		17 55 ✓	F.B. 1284-12		L.&T.
6' L.			3 1	17 5 ✓			Brk.
18' L.			2 2	18 4 ✓			"
66' L.			2 4	18 2 ✓			"
136' L.			5 5	15 1 ✓			"
182' L.			7 9	12 7 ✓			"
225			9 0	11 6 ✓	24° 21' ✓	226	"
250			9 9	10 7 ✓	26 39 ✓	251	"
271			11 1	9 5 ✓	28 38 ✓	273	"
T.P.	3 00	9 96 ✓	13 65	06 96 ✓			1X2
332			3 0	7 0 ✓	33 44 ✓	321	Brk.
T.P. 377	1 85	6 85 ✓	4 96	5 00 ✓	37 05 ✓	378	"
419			5 4	1 5 ✓	40 02 ✓	420	under water
497			8 3	-1 4 ✓	44 58 ✓	499	" "
530			9 5	-2 6 ✓	46 49 ✓	533	" "
591			12 5	-5 6 ✓	49 51 ✓	592	" "
647			12 5	-5 6 ✓	52 29 ✓	651	" "
700			11 6	-4 7 ✓	54 34 ✓	703	" "
770			12 0	-5 1 ✓	57 04 ✓	771	" "
826			13 3	-6 4 ✓	58 55 ✓	829	" "
865			15 0	-8 1 ✓	60 02 ✓	867	" "

Inshore 245+00

F.B. 1299 146 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes Chkd. Checked No.
Indexed [illegible] Date Date

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed O. Johnson

F. B. 129 Pg. 147

MARCH 10 1953

SANTA MONICA PIER

TIME	GAGE
0600	4.8
0630	4.3
0700	4.0
0730	3.6
0800	3.1
0830	2.4
0900	1.8
0930	1.3
1000	1.0
1030	0.5
1100	0.3
1130	0.0
1200	0.0
1230	0.0
1300	0.1
1330	0.4

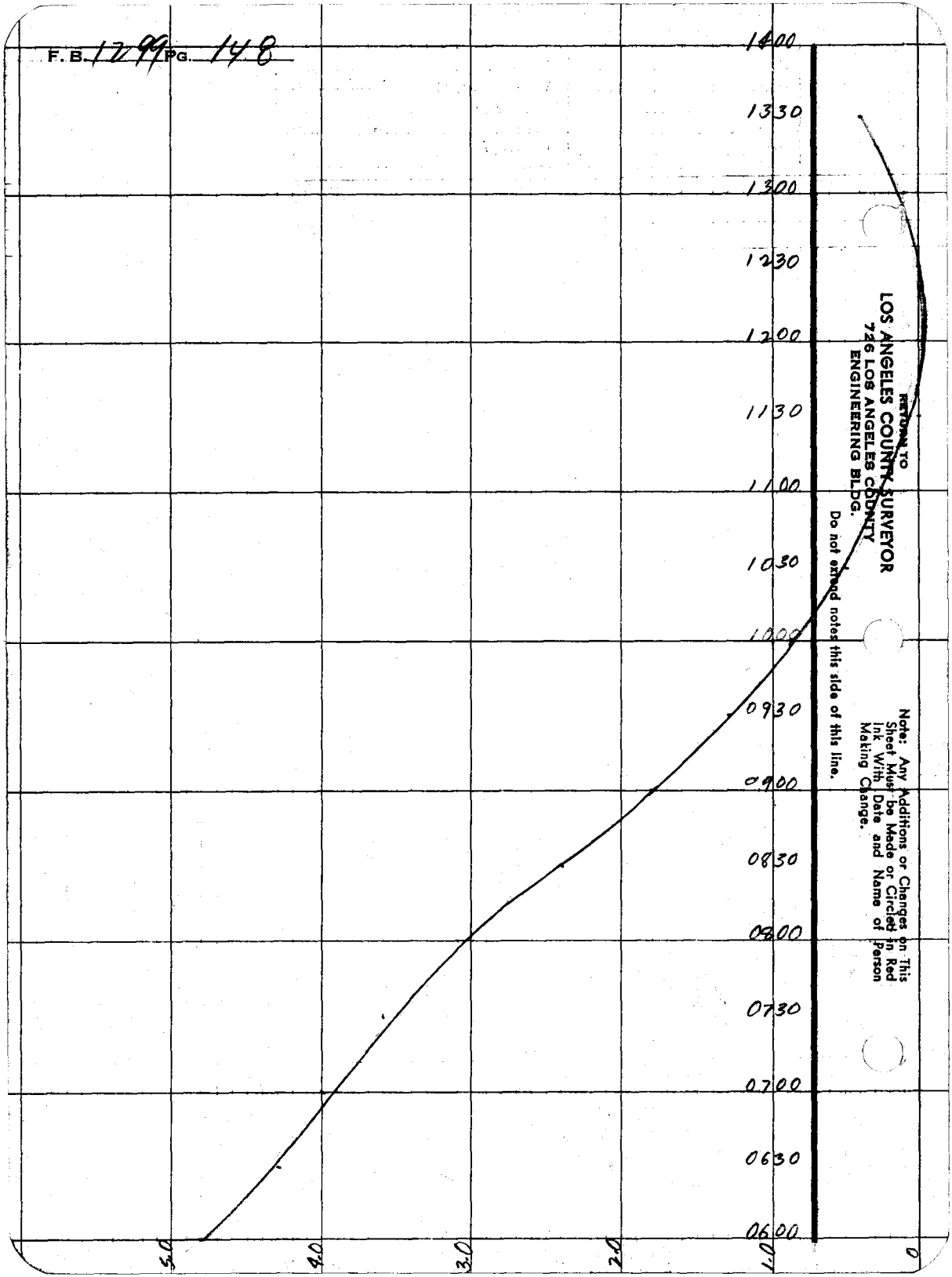
Note: Any Additions or Changes of This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 2-51

F. B. 1299 PG. 148



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726 LOS ANGELES COUNTY
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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

RANGE 245+00

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks
245+00	S-12 1	B+W	8:23	90°00'	✓	
	2	R		90°00'	✓	
	3	Y		90°26'	✓	
	4	B+W	8:30	90°15'	✓	
	5	R		90°25'	✓	
	6	Y		90°17'	✓	
	7	B+W	8:35	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	8:39	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	8:42	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°36'	✓	
	16	B+W	8:46	90°43'		

RANGE 245+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 149
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes J.S. Date 3-10-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 4299 Pg. 150 | Job No. 8412 Division No. | Profile
Survey of BEACH EROSION STUDIES | Plotted | No.
Survey by BLANCHARD Notes J.S. | Date | X-Sec.
Indexed R. C. Johnson Date 3-10-53 | Notes Red. | No.
Date | Notes Chkd. | Checked
Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 240+00-S
240+00 S-12	1	B+W	9:04	90° 00'		
	2	R		90° 23'		
	3	Y		90° 00'		
	4	B+W	9:10	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	B+W	9:17	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	B+W	9:21	90° 00'		
	11	R		90° 00'		
	12	Y		90° 00'		
	13	B+W	9:25	90° 00'		
	14	R		90° 00'		
	15	Y		90° 00'		
	16	B+W	9:28	90° 00'		

Range 240+00 S

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

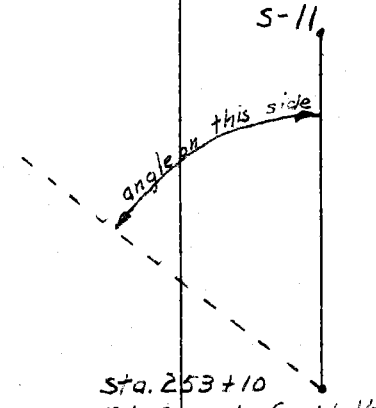
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1298 Pg. 155
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Clkd. Checked Survey by Blanchard Notes R.G. Date 3-10-53
No. Date Date Map No. Checked Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On		# Color	Time	Hor. Ang.
253+10	S-11	1 B&W	7 30	81° 31'
		2 R		81° 10'
		3 Y		80° 36'
		4 B&W	7 36	80° 42'
		5 R		80° 10'
		6 Y	7 47	79° 23'
		7 B&W	7 50	78° 44'
		8 R		78° 22'
		9 Y		78° 14'
		10 B&W	7 54	78° 01'
		11 R		77° 02'
		12 Y		76° 13'
		13 B&W	7 58	75° 28'
		14 R		74° 43'
		15 Y		73° 46'
		16 B&W	8 03	73° 44'
		17 R		72° 24'
		18 Y		71° 00'

Remarks

Cut in 250+00 S-11



Cut in 250+00 S

76L298 307 4-50

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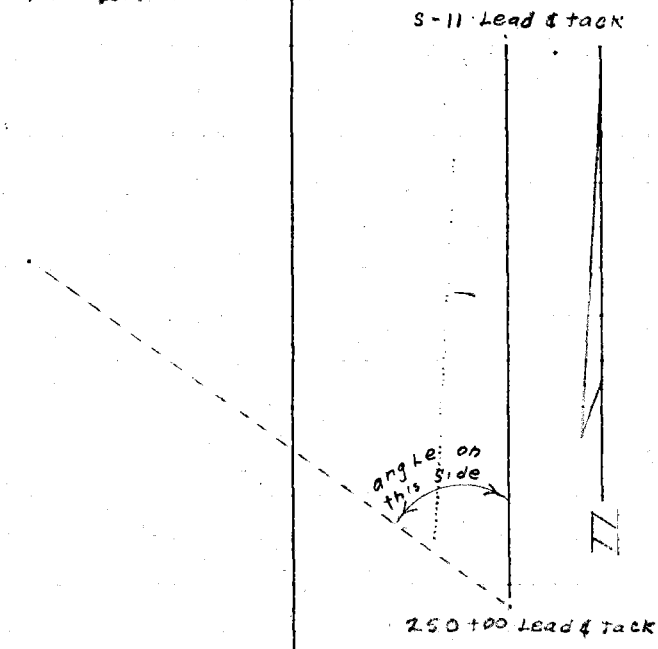
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
250+00 S-11	1	B&W	8:24	7[illegible] 21	✓	Cut In 245+00
	2	R		72 19	✓	
	3	Y		71 25	✓	
	4	B&W	8 31	70 21	✓	
	5	R		69 34	✓	
	6	Y		68 04	✓	
	7	B&W	8 36	68 14	✓	
	8	R		67 20	✓	
	9	Y		65 35	✓	
	10	B&W	8 40	64 26	✓	
	11	R		63 45	✓	
	12	Y		62 55	✓	
	13	B&W	8 43	61 43	✓	
	14	R		60 36	✓	
	15	Y		59 33	✓	
	16	B&W	8 46	58 21	✓	

Cut In 245+00



F. B. 1299 Pg. 152
Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No.
Survey by Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date No.

761.298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 250+00 S Boat

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	B&W	7:30	3 27.8 / 3 26.5	36.9 / ~~36.9~~	35	33.4	2070	Anderson Sounding
2	R		3 27.0 / 3 25.5	36.9 / ~~36.9~~		32.5	2098	Stangeland Motor
3	Y		3 25.7 / 3 24.3	34.8 / ~~34.8~~		31.3	1958	Shoemaker Notes
4	B&W	7:35	3 24.7 / 3 22.8	33.4 / ~~33.4~~	34	30.0	1890	
5	R	~~7:35~~	3 22.0 / 3 20.1	30.7 / ~~30.7~~		27.3	1760	
6	Y	7:47	29.5 / 27.5	28.2	32	25.0	1618	
7	B&W	7:50	27.5 / 26.0	26.5	32	23.3	1669	
8	R		26.1 / 25.0	25.4		22.2	1531	
9	Y		24.3 / 22.6	23.2		20.0 / ~~20.0~~	1460	
10	B&W	7:54	22.5 / 20.5	21.2	31	18.1	1402	
11	R		20.5 / 19.7	20.3		17.2	1314	
12	Y		19.5 / 18.0	18.5		15.4	1241	
13	B&W	7:58	17.9 / 16.9	17.2	30	14.2	1173	
14	R		16.5 / 14.5	15.2		12.2	1116	
15	Y		15.0 / 13.1	13.7		10.7	1064	
16	B&W	8:03	12.9 / 11.5	12.0	30	9.0	1048	
17	R		12.0 / 9.5	10.3		7.3	965	
18	Y	8:06	11.3 / 8.0	9.1	29	6.2	919	
19	B&W							
20	R							

Boat 250+00 S

Profile Notes Red Lour Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 Pg. 753
No. ____ Date 3-31-53 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by Blanchard Notes FHB Date 3-10-53
No. ____ Date 4-8-53 Date ____ Map No. ____ Reduced Johnson Date ____

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 245+00 S Boat

F. B. 1299 Pg. 154 Job No. Division No. Notes Red Lew Plotted No.
Survey of Date 3-31-53 Date X-Sec.
Surveyed by C. Torrance Notes Chkd. KRK Checked No.
Indexed Date 3-10-53 Date 4-8-53 Date

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	8:24	30.3 29.0	29.3	2.5	26.8	1660	Anderson Sounding
2	R		29.0 27.4	27.9		25.4	1561	Stangeland Motor
3	Y		27.7 26.6	27.0		24.5	1513	Shoemaker Notes
4	B&W	8:31	26.0 25.0	25.3	2.4	22.9	1411	
5	R		25.0 24.0	24.3		21.9	1368	
6	Y		24.5 23.0	23.5		21.1	1316	
7	B&W	8:35	23.6 22.2	22.7	2.3	20.4	1242	
8	R		22.6 20.3	21.1		18.8	1195	
9	Y		19.7 18.2	18.7		16.4	1098	
10	B&W	8:39	19.0 16.8	17.5	2.2	15.3	1039	
11	R		16.4 15.1	15.5		13.3	1019	
12	Y		15.0 14.0	14.3		12.1	980	
13	B&W	8:43	13.5 11.9	12.4	2.1	10.3	923	
14	R		11.5 10.5	10.8		8.7	884	
15	Y		10.8 9.3	9.8		7.7	860	
16	B&W	8:46	9.3 7.8	8.4	2.0	6.4	822	
17	R							
18	Y							
19	B&W							
20	R							

Boat 245+00 S

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 235+00		
					Sight on 240+00		
240+00 S.	3 33	20 73		17 40	F.B. 1284-12		L.&T.
5' L.			3 2	17 5			Brk.
35' L.			2 1	18 6			"
100' L.			6 1	14 6			"
150			7 2	13 5	16 14	146	"
187			8 4	12 3	20 25	186	"
209			9 6	11 1	22 34	208	"
242			9 8	10 9	25 47	242	"
304 T.P.	3 00	10 27	13 46	7 27	31 14	303	"
336 T.P.	0 70	~~6 66~~ 5.66	5 31	~~5 96~~ 4 96	33 52	336	"
395			4 8	~~1 9~~ 0.9	38 14	394	under water
488			6 5	~~0 2~~ 0 8	44 07	485	" "
592			9 5	~~-2 8~~ -3.8	49 44	590	" "
685			11 4	~~-4 7~~ -5.7	53 54	686	" "
726			11 5	~~-4 8~~ -5.8	56 27	754	" "
855			14 3	~~-7 6~~ -8.6	59 40	855	" "

Inshore
240+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1294/55 Pg.
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by English Notes English Date 3-10-53
Date ____ Date ____ Map No. 1 Indexed [illegible] Date ____

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at S-11	
					Sight on 235+00	
235+00	2 56	19 71		17 15	F.B. 1284-12	L.&T.
5' L.			2 7	17 0		Brk.
35' L.			1 3	18 4		"
			4 9	14 8	13° 51' 99	"
			8 0	11 7	23 59 179	"
			8 9	10 8	25 58 195	"
			8 1	11 6	29 32 227	"
			10 6	9 1	31 10 242	"
T.P.	0 00	7 99	11 72	7 99	33 14 262	"
T.P.	1 80	4 54	5 25	2 74	37 38 308	"
			4 9	-0 4	42 39 368	under water
			7 3	-2 8	47 59 444	" "
			9 5	-5 0	51 11 497	" "
			10 6	-6 1	57 21 624	" "
			9 7	-5 2	60 13 699	" "
			12 5	-8 0	63 16 761	" "
			15 3	-10 8	65 18 870	" "

Inshore 235+00 S.

F.B. 1299 PG. 156 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed [illegible] Date Date Date

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd.____ Checked____ Survey by BLANCHARD Notes W.S. Date 3-10-53
No.____ Date____ Date____ Map No.____ Checked____ Date____

F. B. 1299 Pg. 152

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks RANGE 235+00-S
235+00	S-12 1	B+W	9:46	90° 00'	✓	
	2	R		90° 00'	✓	
	3	Y		90° 00'	✓	
	4	B+W	9:54	90° 00'	✓	
	5	R		90° 00'	✓	
	6	Y		90° 00'	✓	
	7	B+W	9:57	89° 39'	✓	
	8	R		90° 00'	✓	
	9	Y		90° 00'	✓	
	10	B+W	10:01	90° 00'	✓	
	11	R		90° 00'	✓	
	12	Y		90° 00'	✓	
	13	B+W	10:05	90° 00'	✓	
	14	R		90° 00'	✓	
	15	Y		90° 00'	✓	

RANGE 235+00 S

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1299 Pgs 5 8 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No.
Survey by K. O. Johnson Notes VS | Notes Chkd. | Checked | X-Sec.
Indexed | Date 3-10-53 | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
230+00 / S-11	1	B/W	10:29	90°00'	✓	RANGE 230+00-S
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B/W	10:34	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B/W	10:39	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B/W	10:43	89°34'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B/W	10:47	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°00'	✓	

Range 230+00 S

76L298 307 4-50

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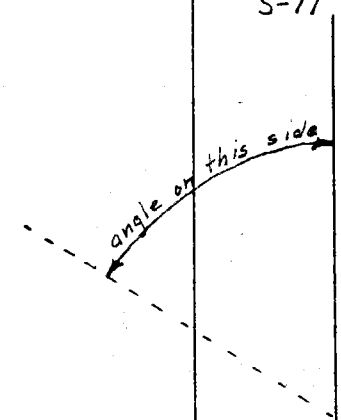
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color		Time Hor. Ang.		Remarks
245+00	S-11	1 B&W	9 04	73° 51'	✓	Cut in 240+00
		2 R		72° 55'	✓	S-11
		3 Y		72° 04'	✓	
		4 B&W	9 11	71° 12'	✓	
		5 R		70° 21'	✓	
		6 Y		69° 27'	✓	
		7 B&W	9 17	67° 42'	✓	
		8 R		66° 28'	✓	
		9 Y		65° 49'	✓	
		10 B&W	9 21	64° 26'	✓	
		11 R		63° 14'	✓	
		12 Y		62° 02'	✓	
		13 B&W	9 25	61° 20'	✓	
		14 R		60° 00'	✓	
		15 Y		59° 17'	✓	
		16 B&W	9 28	58° 01'		



Sta. 245+00
Fd. L&T in Con. Walk

Cut in 240+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1299 Pg. 159
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes RG Date 3-10-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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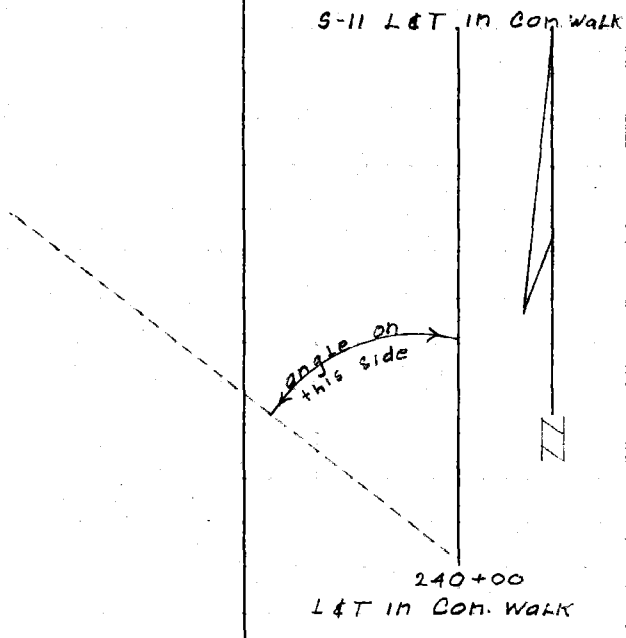
F. B. 12 99 Pg. 160 | Job No. ____ Division No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ No. ____ Profile
Survey of ____ Notes ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ No. ____ X-Sec.
Surveyed by [redacted] Date ____
Indexed ____

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time		Hor. Ang.		
240+00	S-11	1	B&W	9:47		72 45	✓	Cut in 235+00
		2	R			7. 35	✓	
		3	Y			70 50	✓	
		4	B&W		9 54	69 02	✓	
		5	R			68 22	✓	
		6	Y			67 01	✓	
		7	B&W		9 57	65 26	✓	
		8	R			64 55	✓	
		9	Y			63 25	✓	
		10	B&W		10 02	61 19	✓	
		11	R			60 47	✓	
		12	Y			59 30	✓	
		13	B&W		10 05	58 09	✓	
		14	R			56 31	✓	
		15	Y			55 53	✓	

Cut In 235+00



Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1299 Pg. 161
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by Blanchard	Notes FHB	Date
No.	Date	Date	Map No.	Indexed	Date

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STATION	B. S.	H. I.	F. S.	ELEV.		
# Color	Time	Head Depth	Bottom Tide		Adj. Depth	Remarks

76L298 307 4-50

76L298 307 4-50

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F. B. 12 pgs 1&2 | Job No. | Division No. | Notes Red | Plotted | Public | Survey of | Date 8-1-53 | No. | R-Sec. | Survey by R. Tamasese | Notes | Checked KRL | Notes Chkd. 8-10-53 | No. 4 | Indexed | Date | Date 8-8-53

STATION	B. S.	H. I.	F. S.	ELEV.			2 Hot-00 S boat
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1 B&W	904	31.2 / 29.9 / 29.2	30.4	1.7	28.7	1719	Hard bot.
2 R		28.0 / 28.9	28.5 / 27.6		26.8	1646	
3 Y		27.0	27.9		25.9	1540	ANDERSON - Notes
4 B&W	911	26.6 / 25.5	25.9	1.6	24.3	1470	STANGELAND - Head.
5 R		26.2 / 24.5	25.1		23.5	1385	SHOEMAKER - OARS
6 Y		25.2 / 23.7	24.2		22.6	1312	
7 B&W	917	23.9 / 21.8	22.5	1.5	21.0	1210	
8 R		22.2 / 20.4	21.0		19.5	1139	
9 Y		20.9 / 19.0	19.6		18.1	1108	
10 B&W	921	18.9 / 17.7	18.1	1.4	16.7	1037	
11 R		16.8 / 15.5	15.9		14.5	982	
12 Y		15.8 / 14.0	14.6		13.2	932	
13 B&W	925	14.1 / 12.9	13.3	1.4	11.9	906	
14 R		12.5 / 10.8	11.4		10.0	861	
15 Y		10.9 / 9.2	9.7		8.3	835	
16 B&W	928	9.2 / 7.3	7.9	1.3	6.6	795	
17 R							
18 Y							
19 B&W							
20 R							

Boat-Outside

3-10-53

76L298 307 4-50

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Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd Checked Survey by Notes Date
No. Date Date Map No. Date

F.B. 1299 Pg. 43

235400 S Boat

STATION	B.S.	H.I.	F.S.	ELEV.	Soundings	Remarks
# Color	Time	Height	Bottom Side	Adj. Depth	Feet	
1 B&W	947	28.7	28.6	1.0	27.6	1610 HARD BOTTOM
2 R		27.7	27.3		26.3	1501
3 Y		26.4	26.0		25.0	1439 250N - NOTES
4 B&W	955	25.6	25.1	0.9	24.2	1309 LAND - LEAD
5 R		24.8	24.0		23.1	1260 KER - OARS
6 Y		23.7	22.1		21.2	1180
7 B&W	958	22.8	20.3	0.9	19.4	1134
8 R		21.0	18.8		17.9	1070
9 Y		19.6	16.1		15.2	1002
10 B&W	1002	17.5	13.0	0.8	12.2	941
11 R		15.9	12.0		11.2	896
12 Y		13.7	10.7		9.9	850
13 B&W	1006	12.5	9.7	0.8	8.9	840
14 R		10.7	8.6		7.8	803
15 Y		9.8	7.3		6.5	771
16 B&W						
17 R						
18 Y						
19 B&W						
20 R						

Boat 235400 S

Anchored 2:45 PM
Started 3:00 PM

76L298 307 4-50

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Do not extend notes this side of this line.

Profile ____ No. ____ X-Sec. ____
Survey of Lenwood Plotted ____
Division No. ____ Notes Red. Date 4-1-53
Job No. ____ Date 3-16-53 Notes Chkd. K.R.K. Checked ____
F. B. 1299 Pg. 44 Notes C. Jones Date 4-22-53 Date ____ No. ____
Surveyed by ____
Indexed ____

STATION	B. S.	H. I.	F. S.	ELEV.	230+00S	Boat
# Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Distance	Remarks
1 B&W	1030	28.9 / 28.0	28.3	0.5	27.8	1678 ✓
2 R		27.8 / 26.8 / 27.4	27.1		26.6	1608 ✓ ON - NOTES
3 Y		25.9	26.4		25.9	1524 ✓ LAND - LEAD
4 B&W	1035	25.2 / 24.1	24.5	0.5	24.0	1390 ✓ KER - OARS
5 R		23.9 / 23.0 / 23.2	23.3		22.8	1341 ✓
6 Y		22.0	22.4		21.9	1262 ✓ BOTTOM
7 B&W	1040	21.4 / 20.5	20.8	0.4	20.4	1166 ✓
8 R		19.6 / 18.9	19.1		18.7	1090 ✓
9 Y	~~1042~~ via	18.2 / 17.4	17.7		17.3	1036 ✓
10 B&W	1043	16.6 / 15.8	16.1	0.4	15.7	986 ✓
11 R		14.9 / 14.0	14.3		13.9	933 ✓
12 Y		13.9 / 13.0	13.3		12.9	930 ✓
13 B&W	1047	12.2 / 11.4	11.7	0.4	11.3	872 ✓
14 R		11.5 / 10.6	10.6		10.2	840 ✓
15 Y		10.3 / 9.3	9.0		8.6	801 ✓
16						

Boat 230+00S

ANDERSON STRAWBRIDGE SHOMAKER

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1288 Pg. 165
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Lowe Checked____ Survey by English Notes English Date 3-10-53
No.____ Date 4-23-53 Date____ Map No.____ Indexed Job map Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ✓			
					Inst. at 226+00			
					Sight on 230+00			
230+00	2 29	19.18 ~~19.28~~		16 89	✓ F.B. 1284-12		✓	L.&T.
5' L.			2 1	17 ~~1~~			✓	Brk.
30' L.			2 2	17 ~~0~~			✓	"
			6 4	12 ~~8~~	17° 42'	128	✓	"
			7 3	~~12~~ 11.3 ~~0~~	22 32	164	✓	"
			8 3	19.9 ~~11.0~~	23 46	176	✓	"
			8 1	11 ~~1~~	27 58	212	✓	"
			10 0	9 ~~2~~	30 08	232	✓	"
			10 7	8 ~~3~~	32 11	252	✓	"
T.P.	0 75	5 ~~3~~	14 62	4 ~~4~~	35 34	286	✓	"
			4 8	0 ~~5~~	41 42	356	✓	"
			6 7	-1 ~~6~~	48 23	450	✓	under water
			9 0	-3 ~~7~~	54 20	557	✓	" "
			9 8	-4 ~~8~~	58 11	645	✓	" "
			11 8	-6 ~~9~~	62 23	765	✓	" "
			14 9	-9 ~~10~~	64 21	833	✓	" "

Inshore
230+00 S.

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 230+00		
					Sight on 225+00		
225+00	2 50	19 47		16 97	F.B. 1284-12		L.&T.
6' L.			2 9	16 6			Brk.
30' L.			2 1	17 4			"
			7 7	11 8	18 13	165	"
			8 5	11 0	21 27	196	"
			10 0	9 5	23 40	219	"
			11 0	8 5	25 19	237	"
			11 3	8 2	27 13	257	"
T.P.	0 46	4 93	15 00	4 47	30 03	289	"
			4 2	0 7	35 06	351	under water
			6 7	-1 8	39 32	413	" "
			7 8	-2 9	45 23	507	" "
			9 2	-4 3	48 58	575	" "
			9 3	-4 4	52 24	649	" "
			11 0	-6 1	55 33	729	" "
			13 6	-8 7	57 53	797	" "

Inshore 225+00 S.

F.B. 1299 Pg. 166 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. Checked
Indexed [redacted] Date Date Date No.

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 225+00-S
225+00	S-11 1	B+W	11:02	90°00'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	11:06	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	11:12	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	11:16	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°18'	✓	
	13	B+W	11:18	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		91°00'	✓	

RANGE 225+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 167
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes JS Date 3-10-53
No. ____ Date ____ Date ____ Map No. ____ [illegible] Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. Pg. 168 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by BLANCHARD Notes 1/5 Notes Chkd. Checked X-Sec.
Indexed [redacted] Date 3-10-59 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
220+00 S-11	1	B+W	11:36	90°00'	✓	RANGE 220+00-S
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	11:43	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	11:47	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	11:50	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	

Range 220+00 S

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 8412 Division No. V F.B. 1269 Pg. 162
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Stanford Notes RG Date 3-10-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks
225+00	S-11	1 B&W	10 30	73° 25'	✓	CUT IN 230+00
		2 R		72° 43'	✓	Sta. 225+00 Rd. L&T in con. wk
		3 Y		71° 51'	✓	
		4 B&W	10 35	70° 15'	✓	
		5 R		69° 32'	✓	
		6 Y		68° 25'	✓	angle on this side
		7 B&W	10 40	66° 45'	✓	
		8 R		65° 19'	✓	
		9 Y		64° 10'	✓	
		10 B&W	10 43	63° 24'	✓	
		11 R		61° 48'	✓	Sta. S-11 Rd. L&T in con. wk.
		12 Y		61° 40'	✓	
		13 B&W	10 48	60° 12'	✓	
		14 R		59° 15'	✓	
		15 Y		57° 59'	✓	

CUT IN 230+00 S

76L298 307 4-50

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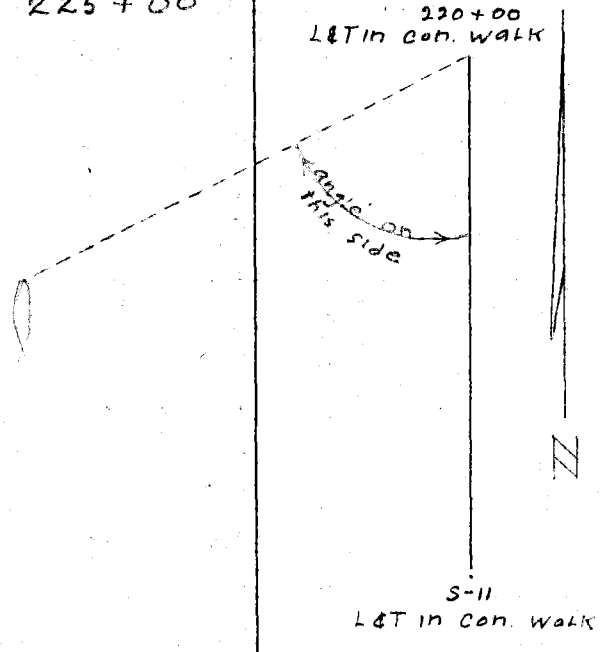
Do not extend notes this side of this line.

F. B. 1299 Pg. 170 — Job No. ____ Division No. ____ Notes Red. ____ Date ____ Notes Chkd. ____ Date ____ Profile ____ No. ____ Plotted ____ Date ____ Checked ____ Date ____ X-Sec. ____ No. ____

Survey of ____ Notes ____
Survey by [redacted] Date ____
Indexed ____

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	✓	
220+00 S-11	1	B & W	11 03	73 33	✓	Cut in 225+00
	2	R		72 54	✓	
	3	Y		71 53	✓	
	4	B & W	11 07	71 23	✓	
	5	R		70 19	✓	
	6	Y		69 16	✓	
	7	B & W	11 13	68 05	✓	
	8	R		65 34	✓	
	9	Y		64 02	✓	
	10	B & W	11 16	62 56	✓	
	11	R		61 28	✓	
	12	Y		60 55	✓	
	13	B & W	11 19	59 39	✓	
	14	R		58 32	✓	
	15	Y		57 58	✓	

Cut in 225+00 S



76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	225+00S		Boat
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	1103	278 270	27.3	0.2	27.1	1700	ELAND - LEAD
2	R		271 260	26.4		26.2	1630	KER - OARS
3	Y		265 247	25.3		25.1	1531	- ANDERSON
4	B&W	1107	261 239	24.6	0.2	24.4	1492	
5	R		248 229	23.5		23.3	1402	
6	Y		230 210	21.7		21.5	1290	BOTTOM
7	B&W	1113	210 198	20.2	0.2	20.0	1187	
8	R		194 183	18.7		18.5	1102	
9	Y		172 160	16.4		16.2	1029	
10	B&W	1117	157 148	15.1	0.1	15.0	981	
11	R		137 129	13.2		13.1	921	
12	Y		122 110	11.4		11.3	890	
13	B&W	1118	109 96	10.0	0.1	9.9	856	
14	R		106 83	9.1		9.0	829	
15	Y		80 67	7.1		7.0	780	
16								
17								
18								
19								
20								

Boat 225+00S

Profile Notes Red Lewis Plotted Job No. 8412 Division No. F. B. 1299 Pg. 171
No. Date 4-1-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked Survey by Blanchard Notes Date 3-10-53
No. Date 4-22-53 Date Map No. Indexed Date

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	220+00S Boat		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B & W	1137	271 260	26.4	0.0	26.4	1710	GELAND-LEAD
2	R		267 249	25.5		25.5	1610	MAKER-OARS
3	Y		247 239	24.2		24.2	1480	RSON - NOTES
4	B & W	1142	238 225	22.9	0.0	22.9	1370	
5	R		224 212	21.6		21.6	1298	RD BOTTOM
6	Y		216 200	20.5		20.5	1220	
7	B & W	1147	200 183	18.9	0.0	18.9	1136	
8	R		172 160	16.4		16.4	1049	
9	Y		156 141	14.6		14.6	960	
10	B & W	1151	131 121	12.4	0.0	12.4	900	
11	R		122 107	11.2		11.2	854	
12	Y		92 80	8.4		8.4	780	
13	B & W							
14	R							
15	Y							
16	B & W							
17	R							
18	Y							
19								
20								

Strangeland
Shoemaker
Anderson

Boat 220+00 S

F. B. 1249 Pg. 172
Job No. ____ Division No. ____ Notes Red. LCW Plotted ____ Profile ____
Survey of ____ Date 3-10-53 Date 4-2-53 No. ____
Survey by A. C. Johnson Notes ____ Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed ____ Date ____ Date 4-22-53 Date ____ No. ____

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
					Cut-in ✓ Inst. at 225+00 Sight on 220+00		
220+00	2 56	19 09		16 53	✓ F.B. 1289-11	✓	L.&T.
6' L.			2 7	16 4		✓	Brk.
			3 7	15 4	11° 09'	99 ✓	"
			5 7	13 4	16 32	148 ✓	"
			7 5	11 6	18 46	170 ✓	"
			8 6	10 5	21 59	202 ✓	"
			9 8	9 3	23 39	219 ✓	"
			10 2	8 9	25 54	243 ✓	"
T.P.	0 20	4 59	14 70	4 39	28 51	275 ✓	"
			4 7	-0 1	33 38	333 ✓	under water
			6 6	-2 0	38 04	391 ✓	" "
			7 4	-2 8	45 03	501 ✓	" "
			9 5	-4 9	52 00	640 ✓	" "
			10 6	-6 0	54 58	713 ✓	" "
			11 6	-7 0	56 33	757 ✓	" "
			13 1	-8 5	57 26	783	" "

220+00 S. Inshore

Profile Notes Red. Plotted Job No. 8412 Division No. F.B. 1289 Pg. 173
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes English Date 3-10-53
No. Date Date Map No. Traced Jackson Checked Date

76L296 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 1289 PG. 174
Job No. 8412 Division No. Notes Red. Plotted
Survey of Beach Erosion Studies Date Date
Survey by English Notes Notes Chkd. Checked
Indexed E. Johnson Date Date
Profile No.
X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ✗	
					Inst. at 219+00	
					Sight on 215+00	
215+00	1 56	17 24		15 68	✓ F.B. 1289-11 ✓	L. & T.
10 L.			1 7	15 5	✓	Brk.
			4 0	13 2	19 54 145 ✓	"
			8 2	9 0	27 32 209 ✓	"
T.P.	0 82	4 56	13 50	3 74	34 33 275 ✓	"
			4 5	0 1	39 30 330 ✓	under water
			7 0	-2 4	46 14 418 ✓	" "
			8 8	-4 2	53 33 542 ✓	" "
			10 6	-6 0	58 22 649 ✓	" "
			10 8	-6 2	61 12 728 ✓	" "
			12 6	-8 0	63 20 796 ✓	" "
			14 1	-9 5	63 58 819 ✓	" "

Inshore
215+00 S.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks RANGE 215+00-S
215+00	S-11 1	B+W	12:12	90°00'	✓	
	2	R		89°39	✓	
	3	Y		90°00'	✓	
	4	B+W	12:20	90°25'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	12:25	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	12:30	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	12:38	90°00'	✓	

RANGE 215+00-S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 7299 Pg. 175
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-10-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1299 PG. 176 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of BEACH EROSION STUDIES Date _____ Date _____ No. _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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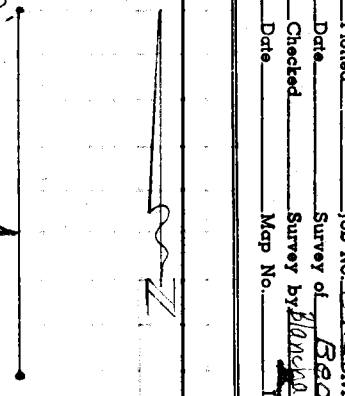
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No. K F. B. 1299 Pg. 122
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Blanchard & Notes RG Date 3-10-53
No. Date Date Map No. Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. Sight At On		# Color	Time	Hor. Ang.		
215+00	S-11	1 BEW	11 37	73° 37'	✓	Cut in 220+00
		2 R		72° 40'	✓	
		3 Y		71° 14'	✓	
		4 BEW	11 44	69° 53'	✓	
		5 R		68° 50'	✓	
		6 Y		67° 43'	✓	
		7 BEW	11 48	66° 12'	✓	
		8 R		64° 28'	✓	
		9 Y		62° 23'	✓	
		10 BEW	11 51	60° 55'	✓	
		11 R		59° 35'	✓	
		12 Y		57° 13'	✓	



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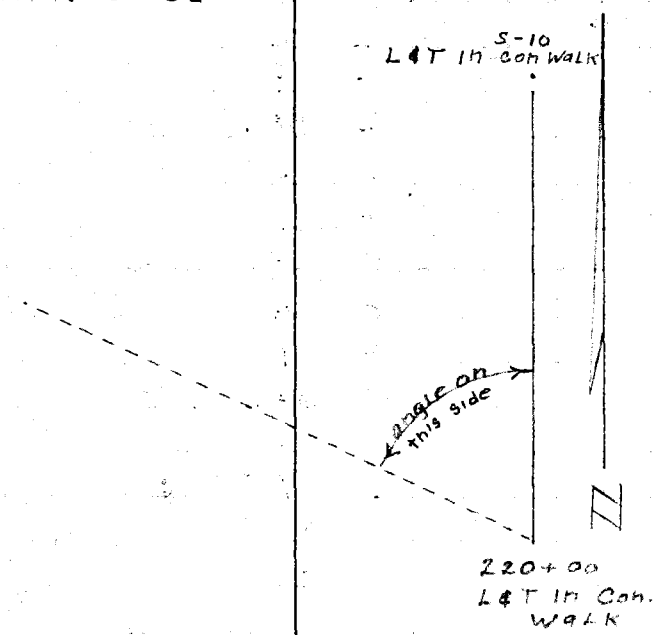
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
220+00	S-10	1	B&W	12:13	72°40	✓	Cut in 215+00
		2	R		72 04	✓	
		3	Y		69 47	✓	
		4	B&W	12 21	67 31	✓	
		5	R		66 08	✓	
		6	Y		65 20	✓	
		7	B&W	12 26	6[illegible] 20	✓	
		8	R		62 47	✓	
		9	Y		61 27	✓	
		10	B&W	12 31	60 26	✓	
		11	R		58 57	✓	
		12	Y		5[illegible] 22	✓	
		13	B&W	12 38	55 00	✓	

Cut In 215+00 S



F. B. 12 99 179 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes FHB Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

Profile No.	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1299 Pg. 179
	Date 3-10-53	Date	Survey of Beach Erosion Studies		
X-Sec. No.	Notes Chkd.	Checked	Survey by Blanchard	Notes FHB	Date 3-10-53
	Date	Date	Map No.	Indexed X C Johnson	Date

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
# Color	Time	Meas. Depth	Botton	Tide	Adj. Depth	Remarks

76L298 307 4-50

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	215+00 S Boat		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	1213	261 250	25.4	-0.1	25.5	1600	LAND - OARS
2	R		252 239	24.3		24.4	1515	KER - SOUNDING
3	Y		238 220	22.6		22.7	1360	ON - NOTES
4	B&W	1221	220 205	21.0	0.0	21.0	1225	
5	R		205 190	19.5		19.5	1130	RD BOTTOM
6	Y		195 180	18.5		18.5	1090	
7	B&W	1226	185 170	17.5	0.0	17.5	1041	
8	R		165 150	15.5		15.5	974	
9	Y		148 132	13.7		13.7	920	
10	B&W	1231	128 112	11.7	0.0	11.7	880	
11	R		110 93	9.9		9.9	830	
12	Y		81 68	7.2		7.2	782	
13	B&W	1239	70 53	5.9	0.0	5.9	713	

Boat 215+00 S

F. B. 1299 Pg. 180 Job No. 8412 Division No. V Notes Red. [illegible] Plotted ____ Profile ____
Survey of BEACH EROSION STUDY Date 4-2-53 Date ____ No. ____
Survey by Blanchard Notes VNA 3-10-53 Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed R. C. Johnson Date ____ Date 4-22-53 Date ____ No. ____

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 206+00		
					Sight on 210+00		
210+00	2 52	18 31		15 79	F.B. 1284-11		L&T.
10' L.			2 6	15 7			Conc.
50' L.			2 0	16 3			Brk.
100' L.			4 4	13 9			"
150' L.			7 0	11 3			"
200 L.	3 00	9 86	11 45	6 86			"
	1 98	6 49	5 35	4 51	29° 53'	230	"
			4 2	2 3	33 46	267	under water
			8 6	-2 1	42 53	371	" "
			14 0	-7 5	49 16	465	" "
			12 5	-6 0	53 34	542	" "
			15 0	-8 5	63 38	807	" "

Inshore
210+00 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1799 PG. 181
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. Lewis Checked ____ Survey by English Notes English Date 3-12-53
Date 4-23-53 Date ____ Map No. ____ Indexed [illegible] Date ____

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 201+00		
					Sight on 205+00		
205+00	1 58	18 11		16 53	F.B. 1284-11		L.&T.
8' L.			1 9	16 2			Brk.
70' L.			3 7	14 4			"
128' L.			3 9	14 2			"
155' L.			5 7	12 4			"
T.P.	1 55	11 11	8 55	9 56			1x2
			6 0	5 1	28° 03'	213	under water
			12 9	-1 8	43 43	382	" "
			15 5	-4 4	49 42	472	" "
			18 6	-7 5	60° 41'	712	" "
			19 5	-8 4	61 02	723	" "

Inshore
205+00 S.

F.B. 1299 PG 182
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed K. O. Johnson Date Date 4-23-53 Date

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd °F
Surveyed by
Notes Date
Indexed 8-26-53

F. B. 1299 Pg. 183

MARCH 13 1953

SANTA MONICA PIER

0600	5.9
0630	6.2
0700	6.3
0730	6.3
0800	6.1
0830	5.6
0900	5.2
0930	4.5
1000	3.8
1030	3.2
11.00	2.1
1130	1.2
1200	0.7
1230	0.0
1300	-0.5
1330	
1400	

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

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725 LOS ANGELES COUNTY
ENGINEERING BLDG.

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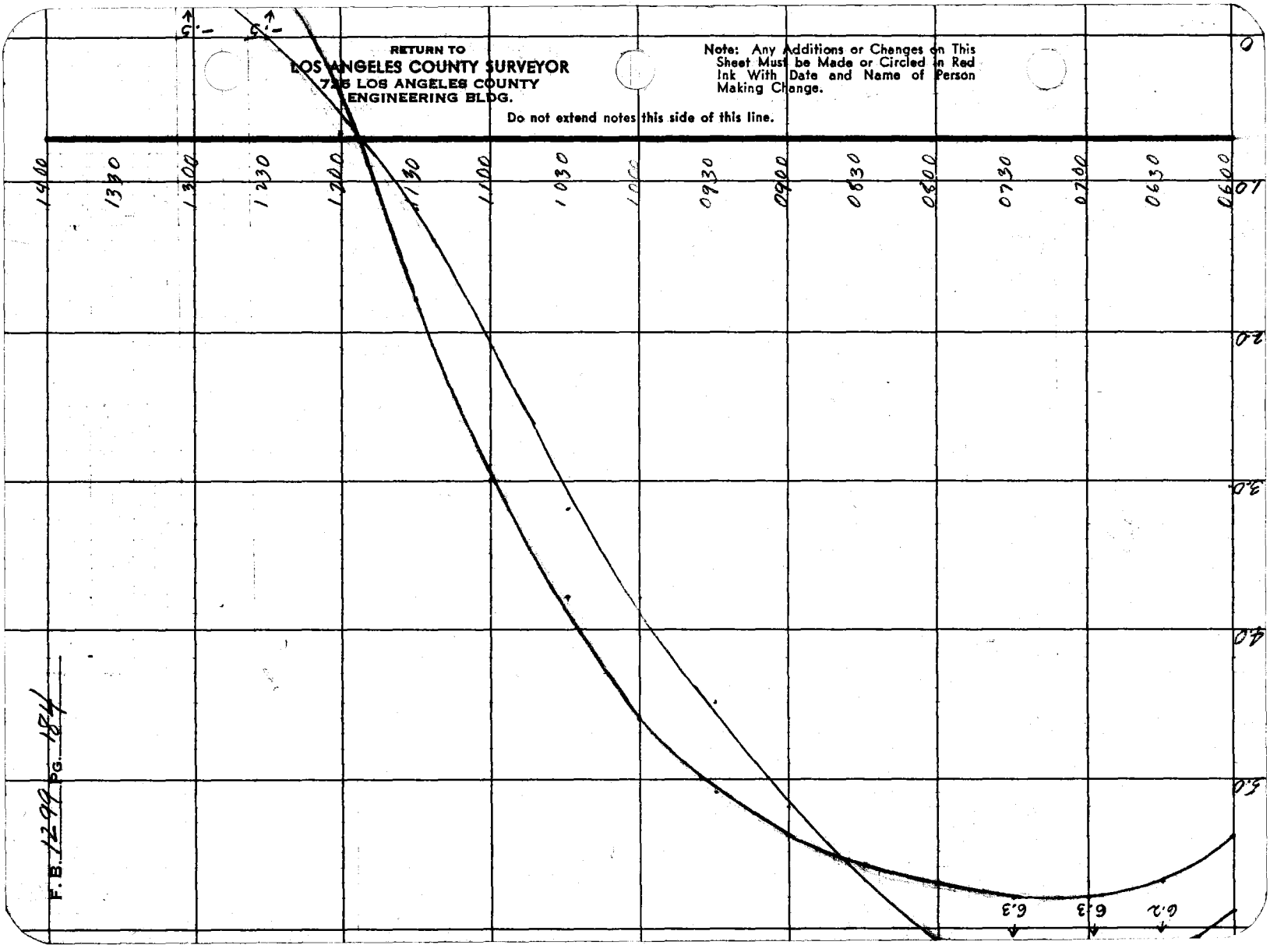

F.B. 12-00 PG. 184

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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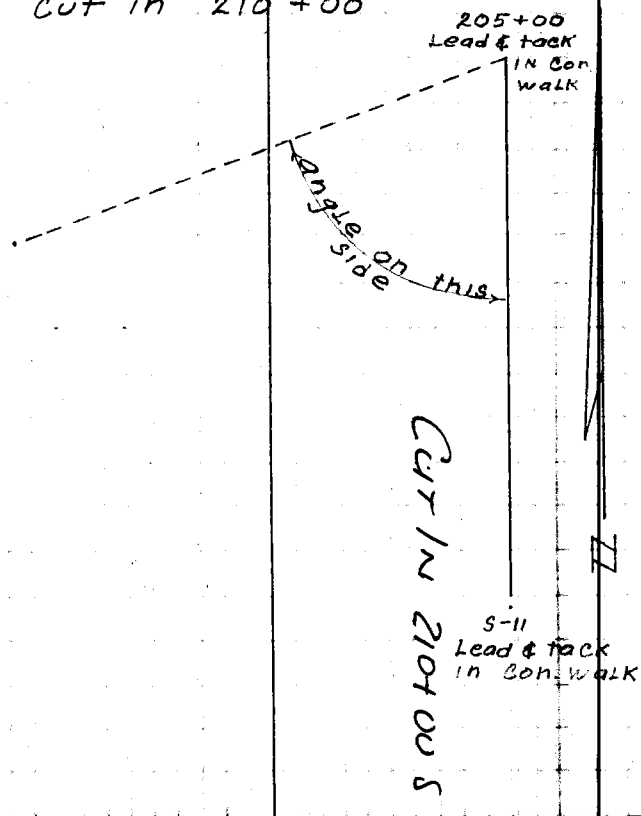
Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1298 Pg. 18
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. Checked Survey by Notes JV Date 3/13/63
No. Date Date Map No. Traced Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At 205+00	Sight On S-11	# Color	Time	Hor. Ang.		
		1 B&W	6:44	72° 22'	✓	
		2 R		71 42	✓	Cut in 210+00
		3 Y		69 52	✓	
		4 B&W	6 50	67 46	✓	
		5 R		65 14	✓	
		6 Y		64 30	✓	
		7 B&W	6 56	63 46	✓	
		8 R		62 18	✓	
		9 Y		60 55	✓	
		10 B&W	7 00	59 29	✓	
		11 R		57 49	✓	
		12 Y		56 51	✓	
		13 B&W	7 05	56 37	✓	
		14 R		55 38	✓	



76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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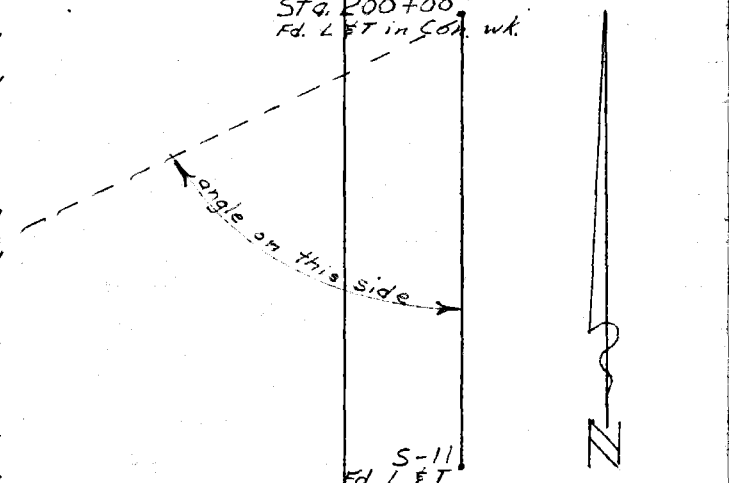
Do not extend notes this side of this line.

F. B. 1299 Pg. 186 | Job No. 8412 Division No. V | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by | Notes | Notes Chkd. | Checked | X-Sec.
Indexed R. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
200+00	S-11	1	B&W	7 25	71° 33'	✓
		2	R		71° 07'	✓
		3	Y		70° 14'	✓
		4	B&W	7 31	67° 31'	✓
		5	R		65° 34'	✓
		6	Y		64° 25'	✓
		7	B&W	7 40	63° 27'	✓
		8	R		62° 30'	✓
		9	Y		61° 06'	✓
		10	B&W	7 45	60° 22'	✓
		11	R		59° 44'	✓
		12	Y		59° 15'	✓
		13	B&W	7 50	58° 32'	✓
		14	R		56° 38'	✓
		15	Y		55° 09'	✓
		16				

Cut in 205+00 S

Cut in 205+00



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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 210+00-S
210+00	S11 1	B+W	6:44	90° 23'	✓	
	2	R		90° 14'	✓	
	3	Y		90° 40'	✓	INST ON 50 FOOT OFFSET W.
	4	B+W	6:50	90° 29'	✓	
	5	R		90° 00'	✓	
	6	Y		90° 00'	✓	
	7	B+W	6:55	90° 22'	✓	
	8	R		[illegible]	✓	
	9	Y		90° 27'	✓	
	10	B+W	6:59	90° 00'	✓	
	11	R		89° 36'	✓	
	12	Y		90° 00'	✓	
	13	B+W	7:02	91° 05'	✓	
	14	R		90° 00'	✓	

RANGE 210+00 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 487
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes J.S. Date 3-13-53
Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F. B. 1299 Pg. 88 | Job No. 8412 Division No. | Profile
Survey of BEACH EROSION STUDIES | Notes Red. | Plotted | No.
Survey by BLANCHARD Notes U/S | Date | Date | X-Sec.
Indexed K. C. Johnson Date | Notes Chkd. | Checked | No.
Range 205+00 S | Date | Date

3-19-53 DATE

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
205+00	S-11	1	B+W	7:25	89°35'	✓	RANGE 205+00-S
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	7:31	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	7:40	90°00'	✓	
		8	R		89°19'	✓	
		9	Y		90°00'	✓	
		10	B+W	7:45	90°00'	✓	
		11	R		90°25'	✓	
		12	Y		90°00'	✓	
		13	B+W	7:49	90°00'	✓	
		14	R		90°24'	✓	
		15	Y		90°00'	✓	

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. BOAT 210

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	6 45	33 2 / 31 0	31.7	6.3	25.4	1640	
2	R		32 0 / 29 8	30.5		24.2	1500	
3	Y		30 1 / 27 6	28.4		22.1	1328	
4	BW	6 51	28 4 / 25 8	26.7	6.3	20.4	1200	
5	R		26 0 / 23 9	24.6		18.3	1089	
6	Y		24 5 / 22 1	22.9		16.6	1029	
7	BW	6 56	22 5 / 21 0	21.5	6.3	15.2	1002	
8	R		21 8 / 19 0	19.9		13.6	954	
9	Y		19 1 / 17 5	18.0		11.7	891	
10	BW	6 59	18 0 / 16 0	16.7	6.3	10.4	850	
11	R		18 0 / 14 5	15.7		9.4	808	
12	Y		15 2 / 13 0	13.7		7.4	769	
13	BW	7 03	14 8 / 11 3	12.5	6.3	6.2	738	
14	R		14 0 / 11 0	12.0		5.7	731	
15	Y							

Profile Notes Red LCWC Plotted ____ Job No. 8412 Division No. 1 F.B. 1299 Pg. 189
No. ____ Date 4-2-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 3-13-53
No. ____ Date 4-22-53 Date ____ Map No. ____ Indexed ____ Date ____

Boat 210+00 S

76L298 3M7 4-50

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Do not extend notes this side of this line. BOAT 205+00

F. B. 1299 Pg. 190 | Job No. 6412 Division No. V | Profile | Notes Red. Rewr | Plotted | No.
Survey of BEACH EROSION STUDIES | Date 1-2-53 | Date | X-Sec.
Surveyed by 2 MEN KRK | Notes Chkd. KRK | Checked | No.
Indexed L. C. Johnson Date | Notes | Date 1-22-53 | Date

STATION	B. S.	H. I.	F. S.	ELEV.			
# Color	Time	Head Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1 BW	725	33.0 / 30.0	31.0	6.3	24.7	1580 V	
2 R		33.5 / 29.2	30.6		24.3	1471 V	
3 Y		32.0 / 28.5	29.6		23.3	1400 V	
4 BW	733	30.0 / 26.5	27.6	6.3	21.3	1211 V	
5 R		20.2 / 25.0	26.1		19.8	1122 V	
6 Y		25.9 / 23.7	24.4		18.1	1048 V	
7 BW	740	25.2 / 22.3	23.6	6.2	17.4	1003 V	
8 R		23.4 / 20.7	21.6		15.4	1008 V	
9 Y		24.0 / 20.0	21.3		15.1	956 V	
10 BW	745	24.2 / 18.0	19.1	6.2	12.9	880 V	
11 R		20.2 / 17.0	18.1		11.9	862 V	
12 Y		18.9 / 15.9	16.3		10.1	842 V	3-13-53
13 BW	750	19.9 / 14.0	15.6	6.2	9.4	820 V	
14 R		15.0 / 12.0	13.0		6.8	758 V	
15 Y		14.0 / 11.0	12.0		5.8	723 V	

Bat 205+00 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 PG. 191

Date ____ Date ____ Survey of Beach Erosion Studies

X-Sec. No. ____ Notes Chkd. LCW. Checked ____ Survey by English Notes English Date 3-13-53

Date 4-23-53 Date ____ Map No. ____ Indexed [redacted] Date ____

Inshore
200+00 S.

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 205+00 Sight on 200+00	
200+00	1 67	18 31		16 64	F.B. 1284-11	L.&T.
8' L.			2 1	16 2		Brk.
80' L.			2 7	15 6		"
115' L.			5 7	12 6		"
150' L.			5 8	12 5		"
T.P.	1 52	10 22	9 61	8 70		1x2
			6 7	3 5	23° 47' 220	under Water
			11 4	-1 2	36 18 367	" "
			14 0	-3 8	39 29 412	" "
			16 0	-5 8	42 14 459	" "
			17 4	-7 2	53° 43' 681	" "

76L298 307 5-49

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at S-10 Sight on 195+00	
195+00	0 91	17 76		16 85	[illegible] ✓	L.&T.
8' L.			1 3	16 5	✓	Brk.
			3 0	14 8	15° 12' 95 ✓	"
			4 9	12 9	23 09 150 ✓	"
T.P.	0 20	5 81	12 15	5 61	31 00 210 ✓	"
			3 6	2 2	36 28 259 ✓	under water
			8 4	-2 6	48 05 390 ✓	" "
			10 2	-4 4	51 01 432 ✓	" "
			11 9	-6 1	55 04 501 ✓	" "
			11 5	-5 7	59 18 589 ✓	" "
			14 7	-8 9	65 33 770 ✓	" "
			16 5	-10 7	66 52 819 ✓	" "

Inshore 195+00 S.

F.B. 1299 PG. 192
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed [illegible] Date Date 4-23-53 Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
						RANGE 200+00 S
200+00	S-11	1	B/W	8:09	90°00'	✓
		2	R		90°00'	✓
		3	Y		90°14'	✓
		4	B/W	8:17	90°00'	✓
		5	R		90°00'	✓
		6	Y		90°00'	✓
		7	B/W	8:21	89°20'	✓
		8	R		90°00'	✓
		9	Y		90°00'	✓
		10	B/W	8:29	90°00'	✓
		11	R		89°15'	✓
		12	Y		89°23'	✓

Range 200+00 S

Profile Notes Red. Plotted. Job No. 8412 Division No.
No. Date. Date. Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked. Survey by BLANCHARD Notes L.S. Date 3-13-53
No. Date. Date. Map No. Checked by Date.

F.B. 7291 Pg. 113

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	3-13-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 195+00-S
195+00	S-11	1	B+W	8:46	90°21'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	8:55	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	9:03	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	9:08	90°00'	✓	

Range 195+00 S

F. B. 1299 PG. 194
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by BLANCHARD Notes JS Notes Chkd. Checked X-Sec.
Index [redacted] Date Date Date No.

76L298 307 4-50

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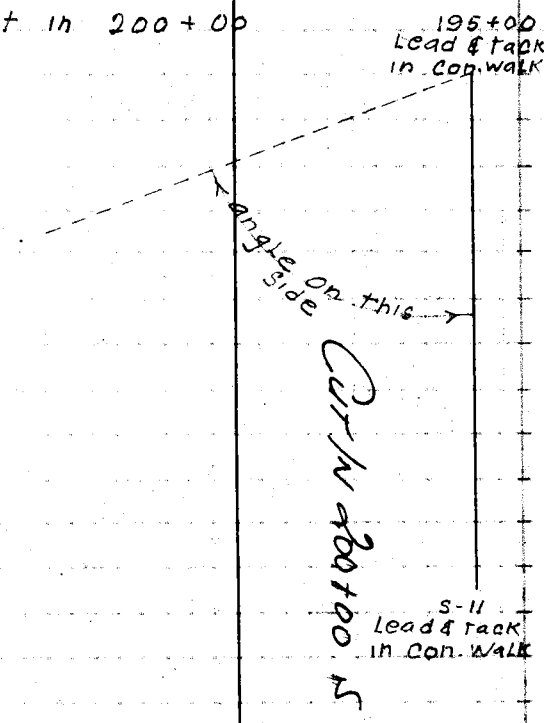
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
195+00	S-11	1	B & W	8 09	74° 19' ✓	Cut in 200+00
		2	R		73 58 ✓	
		3	Y		72 28 ✓	
		4	B & W	8 17	70 48 ✓	
		5	R		68 37 ✓	
		6	Y		65 55 ✓	
		7	B & W	8 22	63 40 ✓	
		8	R		60 33 ✓	
		9	Y		59 28 ✓	
		10	B & W	8 29	57 51 ✓	
		11	R		55 29 ✓	
		12	Y		51 58 ✓	



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Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1299 Pg. 195
No. ____ Date ____ Date ____ Survey of Beach Erosion Study
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes J.V. Date 3/13/53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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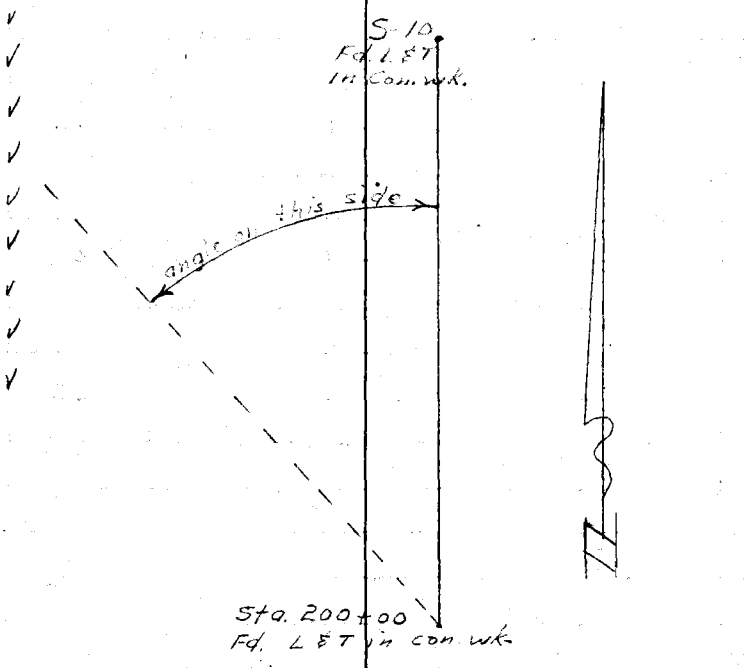
F. B. 1299 Pg. 196 Job No. 8412 Division No. V Notes Red. Plotted. Profile
Survey of Beach Erosion Studies Date. Date. No. X-Sec.
Survey by C. Johnson Notes Notes Chkd. Checked. No.
Indexed Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Hor. Ang.		Remarks
Inst. Sight At / On	#	Color	Time				
200+00 S-10	1	B&W	8 46		75° 17'	✓	Cut in 195+00
	2	R			74° 48'	✓	S-10 Fd. L&T in con. wk.
	3	Y			73° 20'	✓	
	4	B&W	8 58		72° 43'	✓	
	5	R			70° 38'	✓	
	6	Y			69° 36'	✓	
	7	B&W	9:03		64° 50'	✓	angle at this side
	8	R			61° 15'	✓	
	9	Y			58° 21'	✓	
	10	B&W	9:08		56° 35'	✓	

Cut in 195+00 S



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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 200+00 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 10	340 322	32.8	5.9	26.9	1792	
2	R		340 315	32.3		26.4	1750	
3	Y		321 300	30.7		24.8	1575	
4	BW	8 17	315 283	29.4	5.9	23.5	1442	
5	R		295 265	27.5		21.6	1281	
6	Y		283 248	26.0		20.1	1121	
7	BW	8 21	263 220	23.4	5.8	17.5	1040	
8	R		215 190	19.8		14.0	888	
9	Y		200 168	17.9		12.1	851	
10	BW	8 29	189 151	16.4	5.7	10.7	799	
11	R		158 128	13.8		8.1	746	
12	Y		138 102	11.4		5.7	651	
13								
14								

Boat 200+00 S

Profile Notes Red. LCW. Plotted ____ Job No. 84/12 Division No. 1 F. B. 1299 Pg. 147
No. ____ Date 4-2-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 3-13-53
No. ____ Date 4-22-53 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line. 195+00 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 45	35 5 33 0	33.7	5.4	28.3	1940	
2	R		35 2 31 5	32.7		27.3	1855	
3	Y		34 0 30 6	31.7		26.3	1773	
4	BW	8 55	33 5 28 1	29.9	5.3	24.6	1606	
5	R		31 5 27 5	28.8	5.3	23.5	1460	
6	Y		29 0 24 9	26.3	5.2	21.1	1270	
7	BW	9 03	25 3 23 0	23.8	5.1	18.7	1062	
8	R		23 0 18 0	19.7		14.6	872	
9	Y		18 3 15 0	16.1		11.0	810	
10	BW	9 08	16 3 13 0	14.1	5.0	9.1	729	
11	R							
12	Y							
13	BW							

Boat 195+00 S

3-13-53

F. B. 1299 PG. 198 Job No. 8412 Division No. ✓ Notes Red. LWW Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 4-2-53 Date ____ No. ____
Survey by EHB Notes KRK Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed C. Johnson Date ____ Date 4-28-53 Date ____ No. ____

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.				
					Cut-in ⊿			
					Inst. at 185+00			
					Sight on 190+00			
190+00	1 23	18 18		16 95			✓	L.& T.
10 L.			1 6	16 6			✓	Brk.
			3 3	14 9	13° 35'	120	✓	"
			5 0	13 82	16 51	150	✓	"
T.P.	0 76	4 90	14 09	4 14	25 01	231	✓	"
			7 5	-2 6	35 50	362	✓	under water
			11 4	-6 5	42 26	460	✓	"
			11 6	-6 7	44 53	500	✓	"
			11 7	-6 8	45 45	518	✓	"

Inshore 190+00 S.

Profile Notes Red. Plotted Job No. 8412 Division No. F.B. 291 Pg. 199
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes English Date 3-13-53
No. Date Date Map No. Indexed Date

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 180+00	
					Sight on 185+00	
185+00	3 02	19 69		16 67	✓ ✓	L.&T.
7' L.			3 3	16 4	✓ ✓	Brk.
			5 9	13 8	12° 12' 108 ✓	"
			6 5	13 2	17 25 154 ✓	"
T.P.	0 43	6 77	13 35	6 34	22 21 205 ✓	"
			4 0	2 8	27 04 266 ✓	under water
			7 0	-0 2	33 18 329 ✓	" "
			12 7	-5 9	39 47 418 ✓	" "
			10 0	-3 2	47 12 542 ✓	" "
			10 7	-3 9	50 44 614 ✓	" "
			13 6	-6 8	53 55 689 ✓	" "
			15 2	-8 4	55 58 742 ✓	" "

Inshore
185+00 S.

F.B. 1299 PG. 200
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed [illegible] Date Date 4-23-53 Date

76L298 307 4-50

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Do not extend notes this side of this line.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
						RANGE 190+00-S
190+00	S-10	1	B&W	9 27	90°00'	✓
		2	R		89°39'	✓
		3	Y		90°00'	✓
		4	B&W	9 34	90°00'	✓
		5	R		90°00'	✓
		6	Y		90°00'	✓
		7	B&W	9 41	90°00'	✓
		8	R		90°00'	✓
		9	Y		90°00'	✓
		10	B&W	9 44	90°00'	✓
		11	R		90°00'	✓

RANGE 190+00-S

Profile Notes Red_____ Plotted_____ Job No. 8412 Division No._____
No._____ Date_____ Date_____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd._____ Checked_____ Survey by EHB Notes LS Date 3-17-53
No._____ Date_____ Date_____ Map No._____ Date_____

F. B. 1229 Pg. 201

76L298 307 4-50

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3-17-53

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
185+00	S-10	1	B&W	7.02	90°00'	✓	RANGE 185+00S
		2	R		90°00'	✓	
		3	Y		90°40	✓	
		4	B&W	7.06	90°00'	✓	
		5	R		90°00	✓	
		6	Y		90°00	✓	
		7	B&W	7 12	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B&W	7 15	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B&W	7 20	90°00'	✓	
		14	R		90°00'	✓	

RANGE 185+00 S

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F. B. 1299 PG. 202
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by EHB Notes JS Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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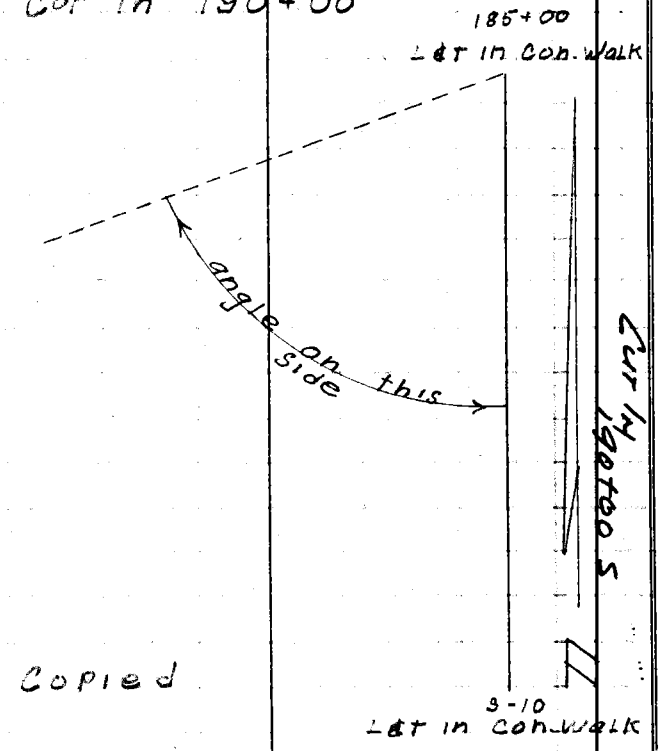
Profile Notes Red____ Plotted____ Job No. 8412 Division No. V F. B. 1299 Pg. 202
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd.____ Checked____ Survey by____ Noted JV Date 3/13/53
No.____ Date____ Date____ Map No.____ Noted [redacted] Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At On # Color Time Hor. Ang.	Remarks
185+00	3-10	1 B&W	9 28		74°55' ✓	Cut in 190+00
		2 R			73 09 ✓	
		3 Y			71 26 ✓	
		4 B&W	9 35		69 00 ✓	
		5 R			66 51 ✓	
		6 Y			65 36 ✓	
		7 B&W	9 40		62 50 ✓	
		8 R			60 44 ✓	
		9 Y			58 41 ✓	
		10 B&W	9 44		56 53 ✓	
		11 R			55 30 ✓	



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76L298 307 4-50

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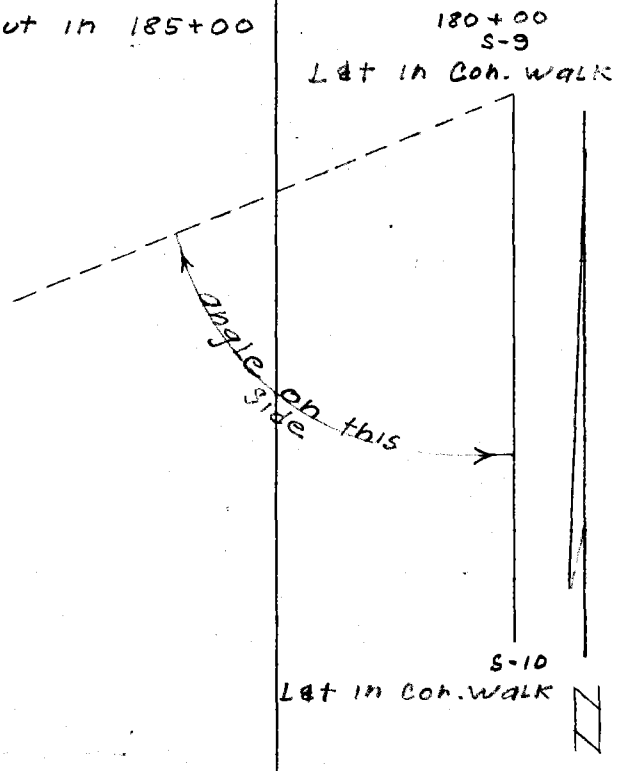
Do not extend notes this side of this line.

F. B. 1299 Pg. 204 | Job No. 8412 Division No. V Notes Red. Plotted. Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

STATION		B. S.	H. I.		F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.			
S-9	S-10	1	B & W	7:02	14 13		✓	Cut in 185+00
180+00		2	R		72 37		✓	
		3	Y		71 55		✓	
		4	B & W	7:06	69 44		✓	
		5	R		66 45		✓	
		6	Y		64 33		✓	
		7	B & W	7:12	63 15		✓	
		8	R		62 27		✓	
		9	Y		59 45		✓	
		10	B & W	7:15	58 55		✓	
		11	R		58 36		✓	
		12	Y		57 57		✓	
		13	B & W	7:20	55 26		✓	
		14	R		54 48		✓	

Cut in 185+00



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line. 190+00 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	927	345 310	32.2	46	27.6	1868	
2	R		320 305	31.0		26.4	1693	
3	Y		299 283	28.8		24.2	1470	
4	B&W	933	278 259	26.5	45	22.0	1310	
5	R		271 248	25.6	45	21.1	1173	
6	Y		249 229	23.6	44	19.2	1108	
7	B&W	940	220 195	20.3	43	16.0	980	
8	R		189 170	17.6		13.3	897	
9	Y		171 135	14.7		10.4	825	
10	B&W	943	145 115	12.5	43	8.2	770	
11	R		133 95	10.8		6.5	730	
12	Y							
13	B&W							
14	R							
15	Y							
16	B&W							
17	R							
18	Y							
19	B&W							
20	R							

Boat 190+00 S

Profile No. ____ Notes Red. LCW. Plotted ____ Job No. 8412 Division No. V F.B. 1299 PG. 205
Date 4-2-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by F.H.B. Notes ____ Date 3-13-53
Date 4-28-53 Date ____ Map No. ____ Indexed ____ Date ____

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Do not extend notes this side of this line. 185+00 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	7 00	295 280	28.5	1.6	26.9	1780	
2	R		290 270	27.7	7.6	26.1	1607	
3	Y		280 260	26.7	1.7	25.0	1490	
4	B&W	7 05	260 247	25.1	1.8	23.3	1360	
5	R		236 220	22.5		20.7	1165	
6	Y		207 193	19.8		18.0	1052	
7	B&W	7 10	195 180	18.5	1.9	16.6	994	
8	R		186 164	17.1		15.2	960	
9	Y		172 150	15.7 ~~15.9~~		13.8	897	
10	B&W	7 15	160 138	14.5	2.0	12.5 ~~22.5~~	865	
11	R		141 118	12.6		10.6	820	
12	Y		118 105	10.9		8.9	800	
13	B&W	7 20	115 85	9.5	2.1	7.4	728	
14	R		98 78	8.5		6.4	710	
15	Y							
16	B&W							
17	R							
18	Y							
19	B&W							
20	R							

Boat 185+00

3-17-53

F.B. 1299 PG. 266 Job No. 8412 Division No. V Notes Red. LCW Plotted No. Profile

Survey of BEACH EROSION STUDIES Date 4-2-53 Date No. X-Sec.

Survey by F.H.B. Notes Notes Chkd. KRK Checked No.

Indexed C. Johnson Date Date 4-28-53 Date No.

76L298 307 5-49

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Do not extend notes this side of this line.

Profile Notes Red _____ Plotted _____ Job No 8412 Division No. _____ F.B. 291 PG. 27
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by Engineering Dept. Date 3-16-53
No. _____ Date 4-23-53 Date _____ Map No. _____ Indexed _____ Date _____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in X Inst. at 175+00 Sight on 180+00		
180+00	1 13	18 51 ✓		17 38 ✓		✓	L. & T.
10' L.			1 4	17 1 ✓		✓	Brk.
			3 0	15 5 ✓	11° 41'	102 ✓	"
			3 1	15 4 ✓	16 42	171 ✓	"
T.P.	0 39	5 55 ✓	13 35	5 16 ✓	25 14	229 ✓	"
			5 0	0 6 ✓	32 52	310 ✓	under water
			8 7	-3 1 ✓	38 30	378 ✓	" "
			9 5	-3 9 ✓	44 32	461 ✓	" "
			8 8	-3 2 ✓	49 29	542 ✓	" "
			10 8	-5 2 ✓	53 18	616 ✓	" "
			12 9	-7 3 ✓	57 35	708 ✓	" "
			15 8	-10 2 ✓	60 22	784 ✓	" "

Inshore
180+00 S.

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 170+00		
					Sight on 175+00		
175+00	0 54	18 50 ✓		17 96 ✓		✓	L. & T.
7' L.			0 8	17 7 ✓		✓	B. K.
			2 7	15 8 ✓	8° 07'	71 ✓	"
			3 0	15 5 ✓	12 53	112 ✓	"
			4 7	13 8 ✓	15 07	134 ✓	"
T. P.	0 66	4 71 ✓	14 45	4 25 ✓	22 44	209 ✓	"
			4 5	0 2 ✓	29 07	280 ✓	under water
			8 7	-4 0 ✓	34 57	352 ✓	" "
			10 1	-5 4 ✓	37 54	390 ✓	" "
			8 4	-3 7 ✓	45 37	512 ✓	" "
			10 1	-5 4 ✓	50 37	611 ✓	" "
			13 8	-9 1 ✓	54 13	693 ✓	" "
			15 0	-10 3 ✓	56 30	760 ✓	" "

Inshore
175+00 S.

F.B. 1299 PG. 208
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes Chkd. Checked No.
Indexed [illegible] Date Date 4-23-53 Date

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed C. Johnson

F. B. 1399 Pg. 207

March 17 1953
Santa Monica Pier

TIME	GAGE
0600	0.4
0630	0.9
0700	1.7
0730	2.3
0800	2.9
0830	3.4
0900	3.9
0930	4.3
1000	4.5
1030	4.6
1100	4.6
1130	4.4
1200	4.1
1230	
1300	

Note: Any Additions or Changes of This Sheet Must be Made on Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY
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76F3096 247 2-51

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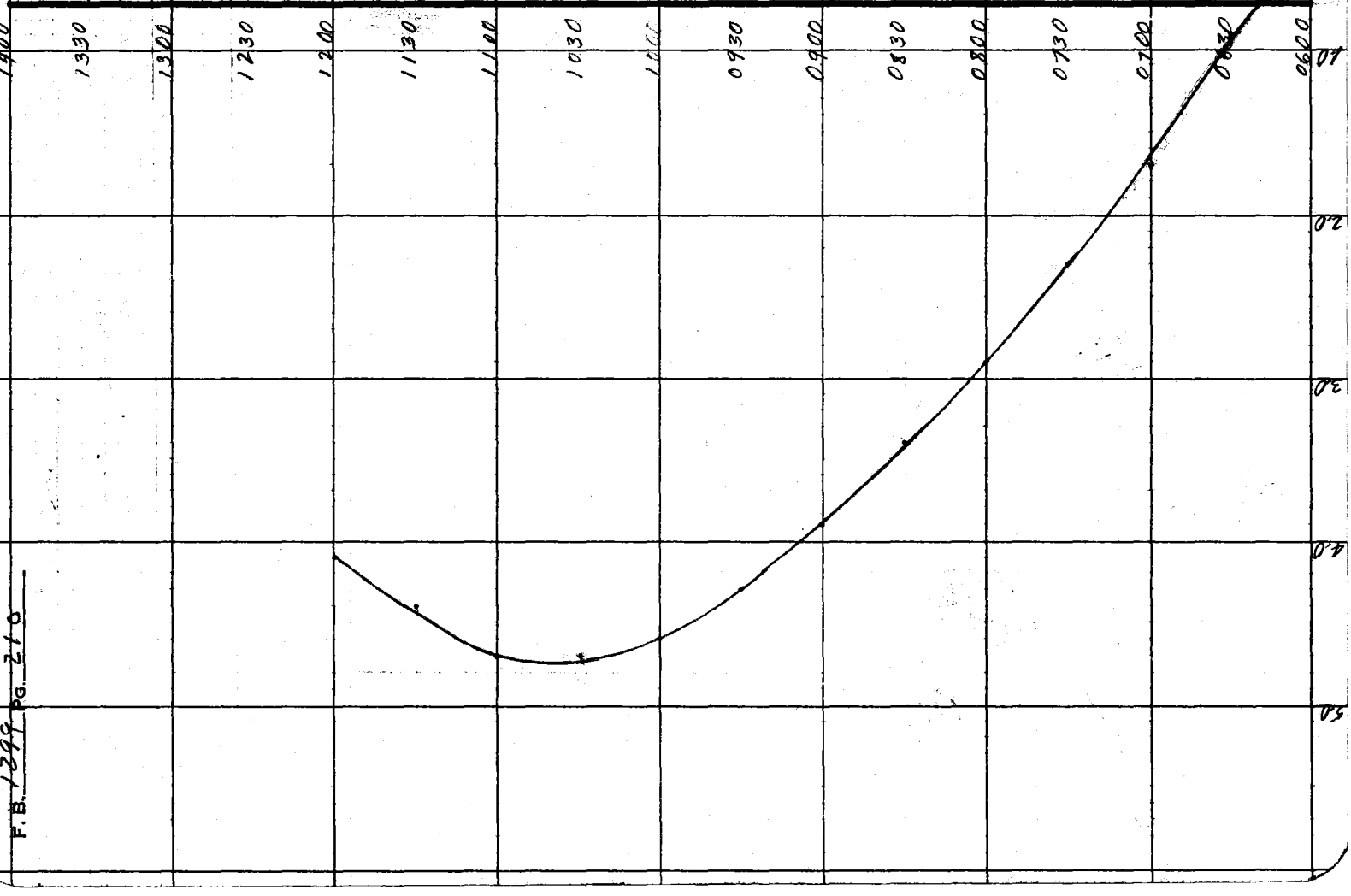
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.



F.B. 1299 Pg. 210

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 180+00 S
180+00	S-10 1	B+W	7:36	90°25'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	7:44	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	7:49	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	7:54	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	

RANGE 180+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 211
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes V.S. Date 3-17-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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F. B. 2299 Pg. 2/2 Job No. 8412 Division No. Notes Red. Date Notes Chkd. Date
Survey of BEACH EROSION STUDIES Date
Survey by E.H.B. Notes V.S. Date
Indexed C. Johnson Date
Profile Plotted Date Checked Date
No. X-Sec. No.

3-17-53

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		RANGE 175+00-S
175+00	S-9	1	B+W	8:12	90°00'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	8:22	89°34'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	8:26	90°00'	✓	
		8	R		89°19'	✓	
		9	Y		89°26'	✓	
		10	B+W	8:30	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B+W	8:33	90°00'	✓	

RANGE 175+00 S

76L298 307 4-50

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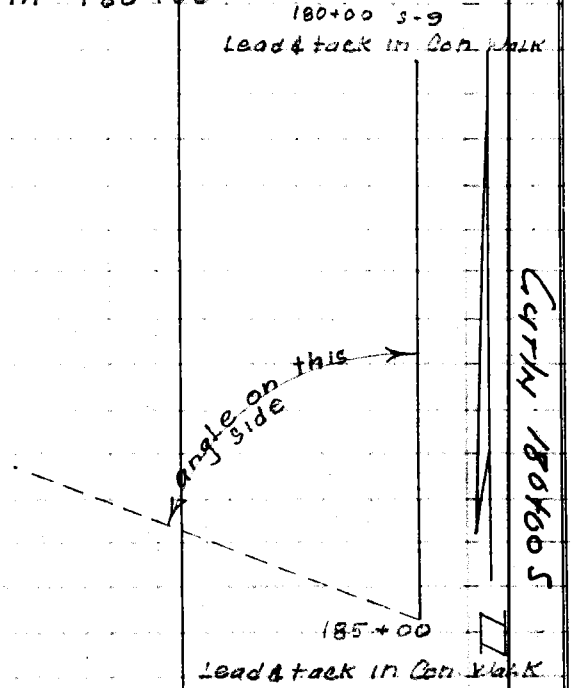
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks
185+00	S-9	1 B&W	7 36	70°56'	✓	Cut in 180+00
		2 R		69 33	✓	
		3 Y		67 28	✓	
		4 B&W	7 44	66 27	✓	
		5 R		65 01	✓	
		6 Y		64 07	✓	
		7 B&W	7 50	62 59	✓	
		8 R		61 49	✓	
		9 Y		61 03	✓	
		10 B&W	7 54	59 40	✓	
		11 R		58 04	✓	
		12 Y		55 41	✓	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Notes J.K. Date 3/17/53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1299 Pg. 2/3

76L298 307 4-50

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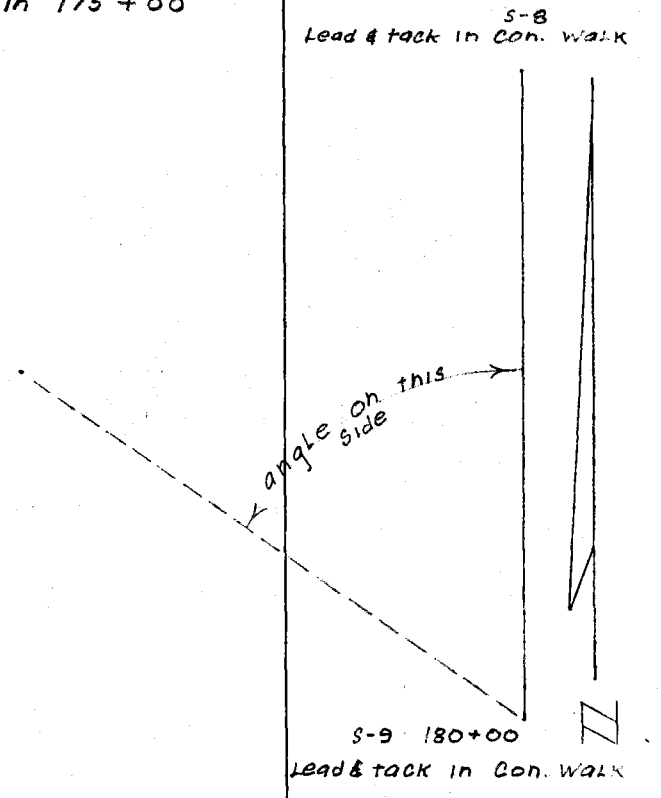
Do not extend notes this side of this line.

S

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
180+00	S-8	1	B&W	8:13	73°06'	Cut in 175+00
		2	R		70 18	✓
		3	Y		68 54	✓
		4	B&W	8 23	67 46	✓
		5	R		65 47	✓
		6	Y		64 24	✓
		7	B&W	8 27	62 43	✓
		8	R		62 20	✓
		9	Y		60 56	✓
		10	B&W	8 31	57 57	✓
		11	R		56 47	✓
		12	Y		54 31	✓
		13	B&W	8 34	52 19	✓

Cut In 175+00 S



F. B. 1299 PG. 214

Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of ____ Date ____ Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed [redacted] C. Johnson Date ____ Date ____ Date ____ No. ____

76L298 307 10-51

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180+00 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	734	293 277	28.2	2.4	25.8	1450	
2	R		272 261	26.5	2.4	24.1	1343	
3	Y		259 239	24.6	2.5	22.1	1210	
4	BW	44	237 225	22.9	2.6	20.3	1150	
5	R		225 207	21.3		18.7	1080	
6	Y		210 190	19.7		17.1	1036	
7	BW	747	191 175	18.0	2.7	15.3	986	
8	R		189 161	17.0		14.3	937	
9	Y		167 147	15.4		12.7	908	
10	BW	54	165 138	14.7	2.8	11.9	859	
11	R		140 122	12.8		10.0	807	
12	Y		127 102	11.0		8.2	735	
13	BW							

Boat 180+00 S

Profile No. ____ Notes Red. Blue Plotted ____ Job No. 8412 Division No. V F.B. 1299 PG. 215

X-Sec. No. ____ Date 4-2-53 Date ____ Survey of BEACH EROSION STUDIES

Notes Chkd. KRK Checked ____ Survey by F.H.B. Notes KRK Date 3-17-53

Date 4-23-53 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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Do not extend notes this side of this line. 175+00 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 09	306 293	29.7	31	26.6	1650	
2	R		291 271	27.8		24.7	1483	
3	Y		277 260	26.6		23.5	1300	
4	BW	8 17	267 256	26.0	32	22.8	1204	
5	R		252 233	23.9		20.7	1110	
6	Y		231 213	21.9		18.7	1047	
7	BW	8 20	209 192	19.8	33	16.5	973	
8	R		203 173	18.3		15.0	958	
9	Y		188 154	16.5		13.2	888	
10	BW	8 22	175 142	15.3	33	12.0	802	
11	R		150 130	13.7		10.4	770	
12	Y		135 105	11.5		8.2	702	
13	BW	8 29	119 92	10.1	34	6.7	650	

Boat 175+00 S

F.B. 1299 PG. 216 Job No. 8412 Division No. Notes Red. LCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-2-53 Date X-Sec.
Survey by F.H.B. Notes Notes Chkd. KRK Checked No.
Indexed C. Johnson Date Date 4-23-53 Date

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Engineers Notes Engineers Date 3-16-53
No. Date 4-23-53 Date Map No. Indexed Date

F.B. 1281 PG. 212

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in X Inst. at 165+00 Sight on 170+00		
170+00	0 42	18 03		17 61	✓	"X"	
10' L.			0 9	17 1	✓	Brk.	
			1 7	16 3	7° 18' 63	"	
			3 9	14 1	11 17 100	"	
T.P.	0 10	4 13	14 00	4 03	20 06 182	"	
			4 4	-0 3	29 00 278	under	water
			7 3	-3 2	37 09 380	"	"
			8 5	-4 4	43 51 517	"	"
			10 3	-6 2	50 48 614	"	"
			11 8	-7 7	53 24 672	"	"
			14 7	-10 6	55 37 731	"	"

In shore 170+00 S.

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 160+00		
					Sight on 165+00		
165+00	0 35	17 88		17 53		✓	L. & T.
7' L.			0 6	17 3		✓	Brk.
			2 7	15 2	5° 34'	49	"
			5 3	12 6	9 37	83	"
			8 4	9 5	12 43	112	"
T.P.	2 60	7 98	12 50	5 38	15 51	142	"
T.P.	1 76	4 04	5 70	2 28	21 40	199	under water
			4 6	-0 6	29 04	279	" "
			5 5	-1 5	32 57	324	" "
			8 3	-4 3	38 59	404	" "
			9 7	-5 7	45 10	503	" "
			11 0	-7 0	51 06	621	" "
			13 0	-9 0	54 31	701	" "
			15 0	-11 0	55 57	740	" "

Inshore 165+00 S.

F.B. 1299 PG. 218 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by English Notes English Notes Chkd. LMW Checked X-Sec.
Indexed R. C. Johnson Date Date 4-23-53 Date No.

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES F. B. 1221 Pg. 119
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes W.S. Date 3-17-53
No. Date Date Map No. Checked Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 170+00-S
170+00	S-9 1	B+W	8:45	90°00'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	8:50	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	8:54	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	8:59	90°00'	✓	
	11	R		90°41'	✓	

RANGE 170+00 S

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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F. B. 1299 P. 220 Profile
Job No. 8412 Division No. Notes Red. Plotted No.
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by EHB Notes J/S Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	3-17-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 165+00-S
165+00	S-9	1	B+W	9:16	90°10'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	9:23	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	9:27	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	9:30	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B+W	9:32	90°00'	✓	
		14	R		90°00'	✓	
		15	Y		90°00'	✓	

Range 165+00 S

76L298 307 4-50

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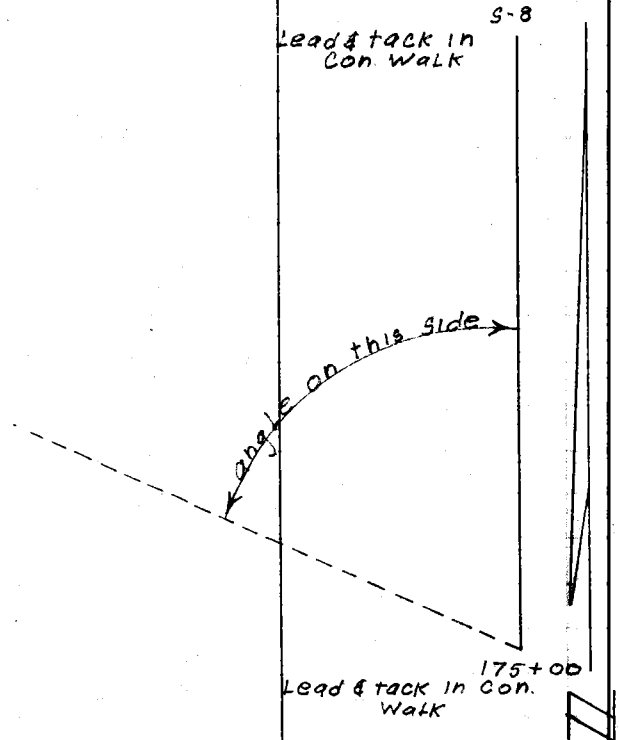
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
175+00	S-8	1	B&W	8 46	69°38' ✓	Cut in 170+00
		2	R		67 43 ✓	
		3	Y		66 01 ✓	
		4	B&W	8 51	63 41 ✓	
		5	R		61 52 ✓	
		6	Y		60 55 ✓	
		7	B&W	8 55	59 51 ✓	
		8	R		57 44 ✓	
		9	Y		50 36 ✓	
		10	B&W	8 59	53 12 ✓	
		11	R		54 10 ✓	



CUT IN 170+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes JV Date 3/17/53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1299 PG. 221

76L298 307 4-50

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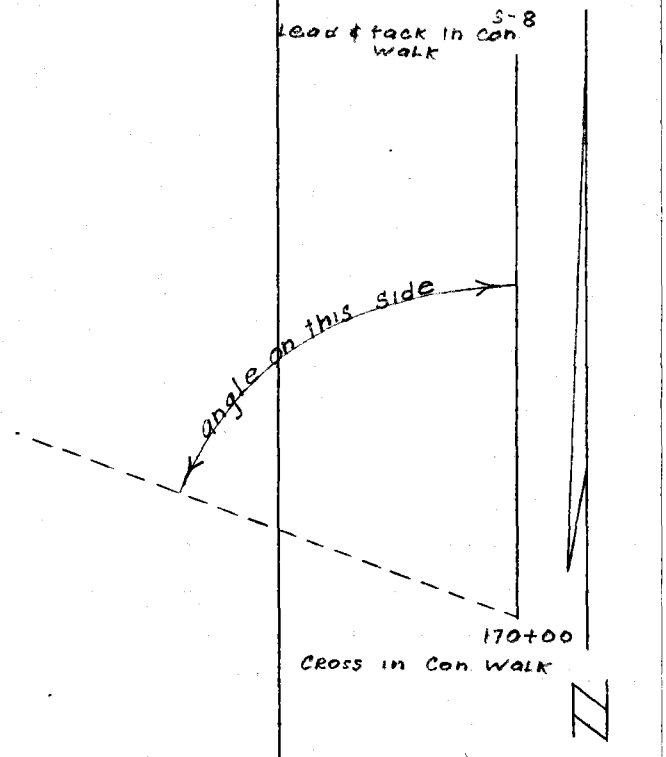
F. B. 1298 Pg. 222 Job No. 8412 Division No. V Notes Red. Plotted. Profile
Survey of Beach Erosion Studies Date Date No.
Survey by C. Tabasco Notes Chkd. Checked. X-Sec.
Indexed Notes Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At 170+00	Sight On S-8	# Color	Time	Hor. Ang.	Remarks
		1 B&W	9 17	72° 26'	Cut in 165+00
		2 R		72 11	
		3 Y		70 09	
		4 B&W	9 23	68 51	
		5 R		66 27	
		6 Y		65 07	
		7 B&W	9 27	63 51	
		8 R		62 25	
		9 Y		61 32	
		10 B&W	9 30	60 08	
		11 R		58 06	
		12 Y		56 36	
		13 B&W	9 32	55 01	
		14 R		53 33	
		15 Y		50 46	

Cut in 165+00 ?



76L298 307 10-51

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170+00 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 45	285 269	27.4	3.7	23.7	1347	
2	R		267 250	25.6		21.9	1220	
3	Y		256 243	24.7		21.0	1122	
4	BW	8 50	235 214	22.1	3.7	18.4	1011	
5	R		215 190	19.8		16.1	930	
6	Y		201 170	18.0		14.3	900	
7	BW	8 54	183 155	16.4	3.8	12.6	861	
8	R		170 140	15.0		11.2	794	
9	Y		156 129	13.8		10.0	610	
10	BW	8 59	132 99	11.0	3.9	7.1	669	
11	R		140 120	12.7		8.8	706	
12	Y							

Profile
No. ____ Date 4-2-53 Date ____ Job No. 8412 Division No. V
X-Sec. Notes Chkd KRK Checked ____ Survey of BEACH EROSION STUDIES
No. ____ Date 4-28-53 Date ____ Survey by F.H.B. Notes ____ Date 3-17-53
Map No. ____ Indexed ____ Date ____

F.B. 1299 PG. 223

Boat 170+00 S

76L298 307 10-51

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Do not extend notes this side of this line. 165+00 Boat

F.B. 1295 Pg. 24 Job No. 8412 Division No. V Notes Red. Date Plotted
Survey of BEACH EROSION STUDIES Date 4-2-53 Date No.
Survey by F.H.B. Notes H.R.K. Notes Chkd. A.R.K. Checked X-Sec.
Indexed C. Johnson Date 4-28-53 Date Profile No.

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Distance Remarks
1	BW	9 16	32.2 30.8	30.7	4.1	26 6	1592
2	R		32.2 27.7	30.5		26 4	1554
3	Y		31.0 27.9	28.9		24 8	1385
4	BW	9 23	29.9 26.0	27.3	4.2	23 1	1290
5	R		28.0 25.9	24.6		22 4	1146
6	Y		26.9 24.3	25.2		21 0	1080
7	BW	9 27	25.2 23.2	23.9	4.3	19 6	1020
8	R		23.5 21.5	22.2		17 9	960
9	Y		23.0 19.3	20.5		16 2	923
10	BW	9 30	19.7 18.6	18.6	4.3	14 3	871
11	R		19.4 16.1	16.9		12 6	805
12	Y		17.3 14.8	15.6		11 3	760
13	BW	9 32	15.0 12.5	13.3	4.3	9 0	712
14	R		13.7 10.7	11.8		7 5	677
15	Y		11.5 9.8	9.7		5 4	613
16	BW						
17							
18							

Boat 165+00 S

76L298 307 5-49

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Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. KGW Checked Survey by English Notes English Date 3-17-53
No. Date 4-23-53 Date Map No. Indexed RC Johnson Date

F.B. 1298 PG. 225

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∠ Inst. at 153+13.4 Sight on 160+00		
160+00	0 39	17 96		17 57	✓	L.# T.	
7'L.			0 9	17 1	✓	Brk.	
			3 1	14 9	4° 03' 49	"	
			5 0	13 0	5 58 70	"	
			5 4	12 6	7 18 84	"	
T.P.	0 32	8 33	9 95	8 01	9 27 113	"	
			6 1	2 2	14 28 176	under	water
			8 7	-0 4	21 58 274	"	"
			12 0	-3 7	27 27 354	"	"
			14 5	-6 2	32 36 436	"	"
			15 2	-6 9	34 12 462	"	"

Inshore
160+00 S.

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 147+50 Sight on 152+50	
152+50	5 00	19 33		14 33	✓	1x2
15' L.	1 31	14 84	5 80	13 53	✓	"
			2 2	12 6	5° 08' 43 ✓	Brk.
			2 8	12 0	7 29 65 ✓	"
T.P.	1 03	8 27	7 60	7 24	12 26 110 ✓	"
			6 6	1 7	20 44 190 ✓	under water
			10 0	-1 7	29 43 286 ✓	" "
			11 9	-3 6	33 23 330 ✓	" "
			13 4	-5 1	39 19 410 ✓	" "
			13 4	-5 1	43 02 468 ✓	" "
			13 4	-5 1	47 03 559 ✓	" "
			14 2	-5 9	50 01 598 ✓	" "
			16 5	-8 2	53 08 658 ✓	" "

Inshore 152+50 S.

F.B. 1299 PG. 226
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed G. Johnson Date Date 4-23-53 Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks
160+00	S-8					RANGE 160+00-S
	1	B+W	9:50	89°42'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	9:53	89°40'	✓	
	5	R		90°00'	✓	
	6	Y		90°50'	✓	
	7	B+W	9:56	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	10:00	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		91°20'	✓	

RANGE 160+00 S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 227
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by EHB Notes JS Date 3-17-58
No. Date Date Map No. Indexed Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	3-17-53	
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 152+00-S
152+50	1	B+W	10:26	90°00'	✓	
	2	R		90°29'	✓	INST ON 15 FOOT OFFSET. WEST
	3	Y		90°35'	✓	
	4	B+W	10:30	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		89°36'	✓	
	7	B+W	10:34	89°30'	✓	
	8	R		91°03'	✓	
	9	Y		90°45'	✓	
	10	B+W	10:38	91°53'	✓	
	11	R		90°00'	✓	

RANGE 152+00 S

F. B. 1299 Pg. 228
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by F.H.B. Notes J.S. Notes Chkd. Checked
Indexed G. Johnson Date Date Date No.

76L298 307 4-50

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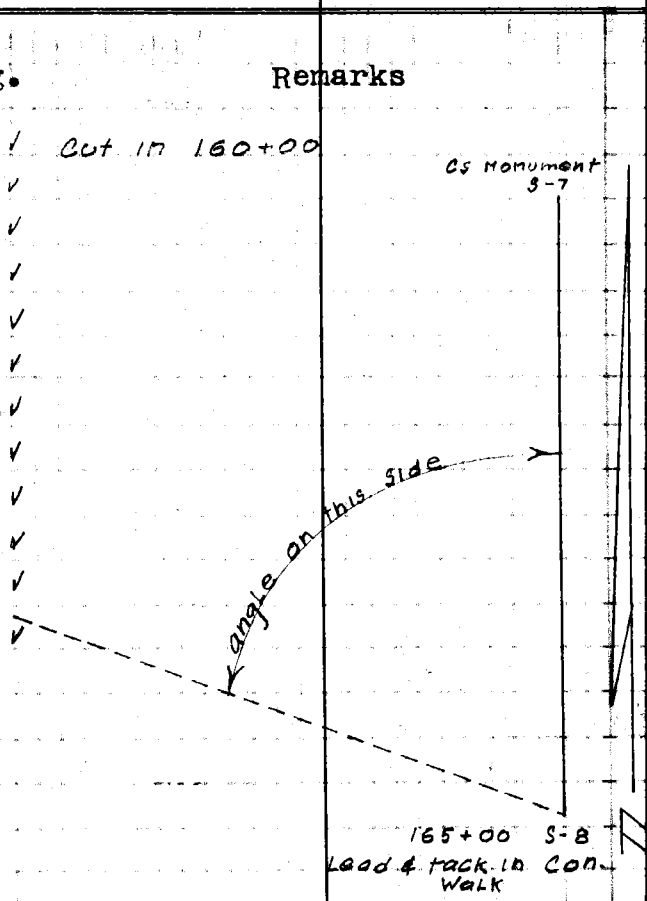
STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
S-8	S-7	1	B&W	9 50	72°25' ✓	Cut in 160+00
165+00		2	R		70 53 ✓	
		3	Y		68 48 ✓	
		4	B&W	9 53	67 17 ✓	
		5	R		65 11 ✓	
		6	Y		62 35 ✓	
		7	B&W	9 57	61 25 ✓	
		8	R		59 46 ✓	
		9	Y		57 44 ✓	
		10	B&W	10 01	54 03 ✓	
		11	R		52 57 ✓	
		12	Y		49 03 ✓	



S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by ____ Notes JV Date 3/17/53
Date ____ Date ____ Map No. ____ Index Johnson Date ____

F. B. 1299 Pg. 229

76L298 307 4-50

S

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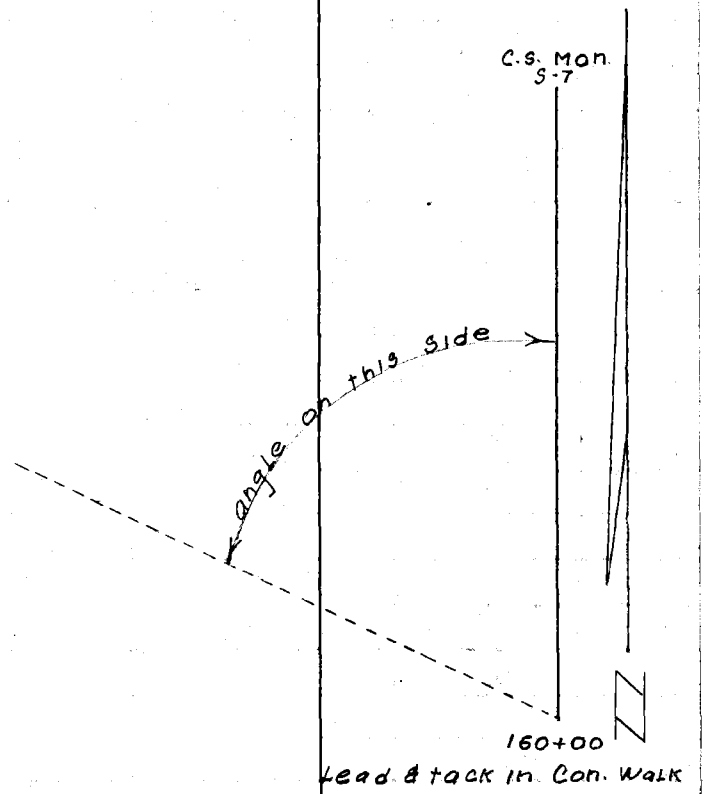
STATION		B. B.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
160+00	S-7	1	B & W	10:26	64° 07'	✓	Cut in 152+50
		2	R		60 48	✓	
		3	Y		57 13	✓	
		4	B & W	10 30	54 06	✓	
		5	R		51 30	✓	
		6	Y		51 08	✓	
		7	B & W	10 34	47 45	✓	
		8	R		43 36	✓	
		9	Y		41 21	✓	
		10	B & W	10 38	38 32	✓	
		11	R		36 24	✓	

Cut in 152+50 S



F. B. 1299 Pg. 230 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Notes Notes Chkd. Checked
Indexed [redacted] Date Date Date No.

76L298 307 10-51

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Do not extend notes this side of this line. 160+00 BOAT

Profile Notes Red Plotted Job No. 8412 Division No. Y F.B. 1299 Pg. 23
No. Date 4-2-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd KRK Checked Survey by F.M.B. Notes KRK Date 3-17-53
No. Date 4-28-52 Date Map No. Indexed Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.		Adj. Depth	Distance	Remarks
#	Color	Time	Meas. Depth	Bottom	Tide			
1	Blu	9 50	31 9	30.6	45	26.1	1550	
2	R		30 9	28.6		24.1	1442	
3	Y		29 8	27.9		23.4	1290	
4	B&W	9 53	27 5	26.1	46	21.5	1172	
5	R		25 5	24.6		20.0	1130	
6	Y		24 3	22.1		17.5	960	
7	B&W	9 56	22 1	19.7	46	15.1	919	
8	R		19 3	17.8		13.2	860	
9	Y		17 2	15.0		10.4	794	
10	B&W	10 00	14 0	12.5	46	7.9	689	
11	R		13 8	10.3		5.7	662	
12	Y		12 5	9.5		4.9	593	
13	B&W		11 6					
14	R		10 5					
15	Y		8 7					

Boat 160+00 S

F.B. 1299 PG. 232 Job No. 8412 Division No. V Notes Red. Lewis Plotted
Survey of BEACH EROSION STUDIES Date 4-2-53 Date
Survey by F.H.B Notes Notes Chkd. KRK Checked
Indexed C. Johnson Date 4-28-53 Date
Profile No. X-Sec. No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	152+50 Boat	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance
1 B&W	10 26	32.2 30.0	30.7	4.7	26.0	1540
2 R		28.0	28.7		24.0	1361
3 Y		26.0	26.6		21.9	1178
4 B&W	10 30	24.0 23.0	23.6	4.7	18.9	1034
5 R		21.0	20.4		15.7	942
6 Y		19.0 18.0	18.7		14.0	922
7 B&W	10 34	17.0 15.2	15.9	4.7	11.2	817
8 R		14.0 12.5	13.1		8.4	726
9 Y		13.8 11.0	11.9		7.2	668
10 B&W	10 38	10.5 9.7	10.0	4.7	5.3	614
11 R		11.0 8.0	9.1		4.4	553
12 Y						

Boat 152+50

76L298 307 5-49

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Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 299 PG. 233
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Miller Checked ____ Survey by Engrs. Notes Engrs. Date 3-17-53
No. ____ Date 4-23-45 Date ____ Map No. ____ Indexed ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∠ Inst. at 142+50 Sight on 147+50		
147+50	1 65	17 18 ✓		15 53 ✓		✓	1X2
			2 0	15 2 ✓	3° 21′	30 ✓	Brk.
			3 2	14 0 ✓	7 15	64 ✓	〃
T.P.	0 18	6 33 ✓	11 03	6 15 ✓	13 43	122 ✓	〃
			4 7	1 6 ✓	19 59	192 ✓	under water
			8 3	-2 0 ✓	31 54	311 ✓	〃 〃
			10 2	-3 9 ✓	40 04	421 ✓	〃 〃
			10 8	-4 5 ✓	45 00	500 ✓	〃 〃
			11 0	-4 7 ✓	48 21	562 ✓	〃 〃
			12 4	-6 1 ✓	51 01	618 ✓	〃 〃
			14 0	-7 7 ✓	53 14	669 ✓	〃 〃
			15 0	-8 7 ✓	54 22	698 ✓	〃 〃

Inshore
147+50 S.

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 137+50 Sight on 142+50	
142+50	1 19	17 83 ✓		16 64 ✓	✓	1X2
			1 3	16 5 ✓	2 08 19 ✓	Brk.
			3 6	14 2 ✓	6 11 54 ✓	"
T.P.	0 67	7 57 ✓	10 93	6 90 ✓	12 14 108 ✓	"
			5 8	1 ~~4~~ 8	22 37 208 ✓	under water
			9 3	-1 7 ✓	32 43 321 ✓	" "
			11 2	-3 6 ✓	39 52 418 ✓	" "
			11 7	-4 1 ✓	46 08 520 ✓	" "
			12 0	-4 4 ✓	50 09 599 ✓	" "
			15 5	-7 9 ✓	53 15 670 ✓	" "

Inshore 142+50 S.

F.B. 1299 PG. 234
Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ No. ____ Profile
Survey of Beach Erosion Studies Date ____ Date ____ X-Sec.
Survey by English Notes English Notes Chkd Pour Checked ____ No. ____
Indexed L. O. Johnson Date ____ Date 4-23-53 Date ____

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed C. C. Johnson 3-26-53

F. B. 1299 Pg. 55

MARCH 18, 1953
Santa Monica Pier

TIME	STAGE
0600 -	0.1
0630	0.2
0700	0.5
0730	1.0
0800	1.2
0830	1.9
0900	2.6
0930	3.0
1000	3.3
1030	3.6
1100	3.8
1130	4.0
1200	4.0
1230	3.8
1300	3.6
1330	
1400	

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ENGINEERING BLDG.

76F3095 247 2-51

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Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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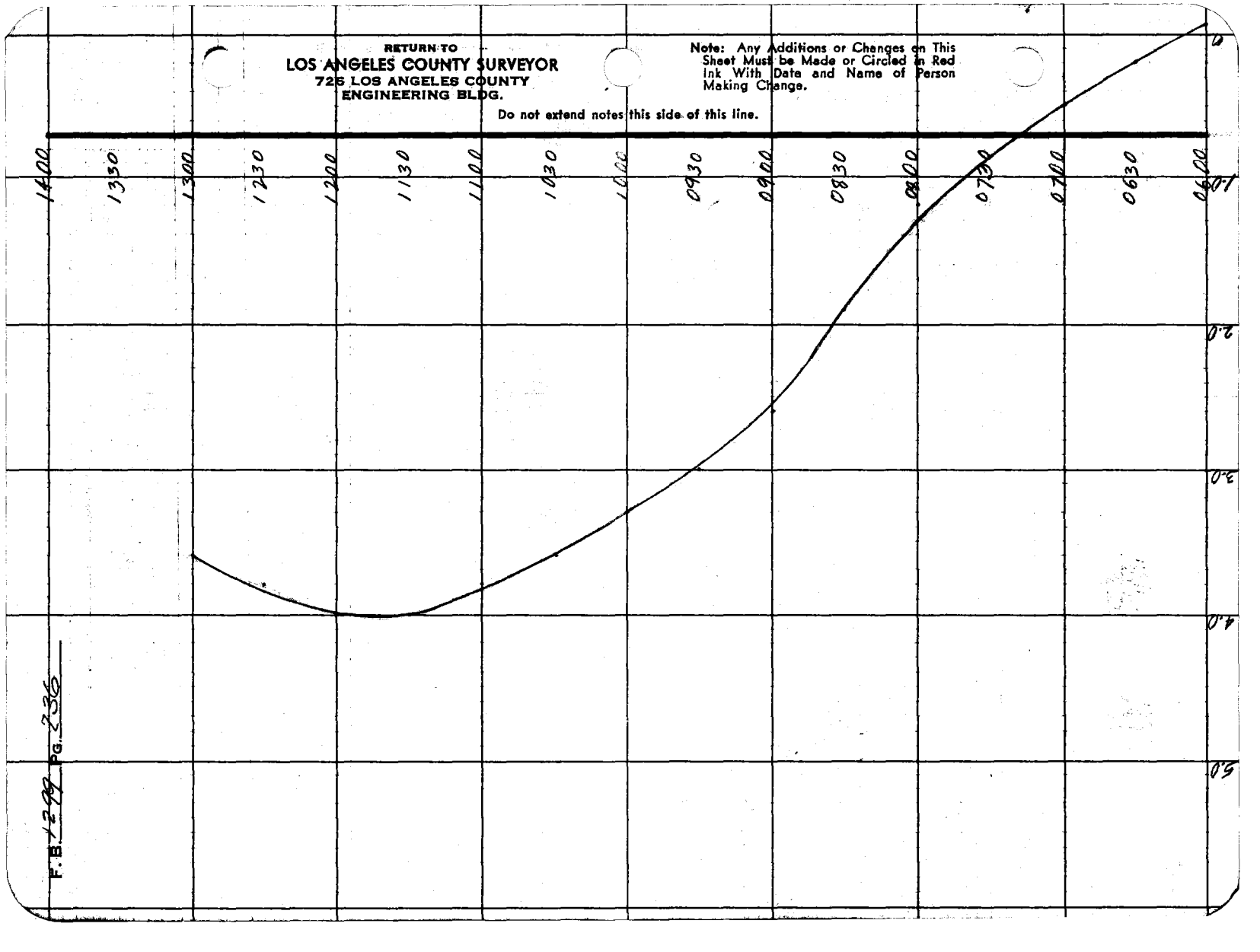

F.B. 1299 Pg. 236

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 147+50-S
147+50	S-8	1	B+W	6:49	90°00'	✓	
		2	R		90°00'	✓	
		3	Y		90°00'	✓	
		4	B+W	6:53	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	6:56	90°00'	✓	
		8	R		90°47'	✓	
		9	Y		90°00	✓	
		10	B+W	6:59	90°27'	✓	
		11	R		91°09'	✓	

RANGE 147+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 237
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes LS Date 3-18-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	3-18-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 142+50-S
142+50	S-8	1	B+W	7:13	90°00'	✓	
		2	R		90°19'	✓	
		3	Y		90°00'	✓	
		4	B+W	7:16	90°21'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	7:19	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		89°34'	✓	
		10	B+W	7:23	90°00'	✓	
		11	R		90°00'	✓	

RANGE 142+50 S

F. B. 1249 Pg. 238
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes J.S. Notes Chkd. Checked X-Sec.
Indexed [redacted] Date Date Date No.

76L298 307 4-50

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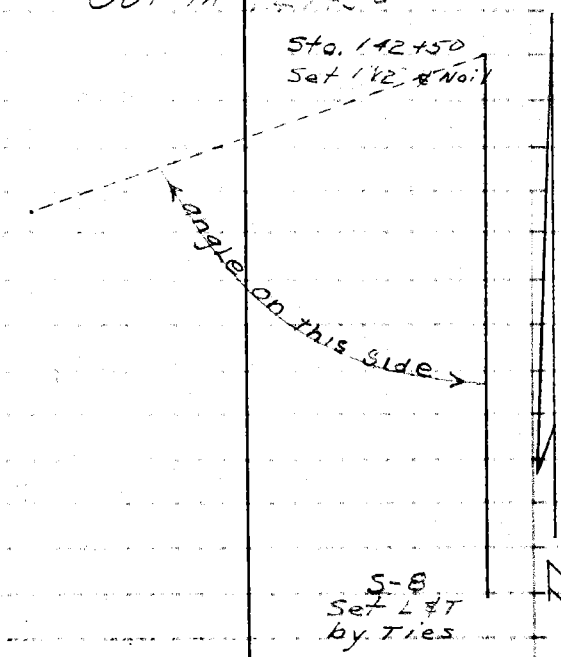
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
142+50	S-8	1	B&W	6 49	72° 28' ✓	Cut in 142+50
		2	R		70° 37' ✓	
		3	Y		69° 18' ✓	
		4	B&W	6 53	68° [illegible] ✓	
		5	R		66° [illegible] ✓	
		6	Y		64° 42' ✓	
		7	B&W	6 55	62° 19' ✓	
		8	R		61° 44' ✓	
		9	Y		[illegible] ✓	
		10	B&W	[illegible]	58° 30' ✓	
		11	R		[illegible] ✓	



Cut In 147+50 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Notes JV Date 3/17/53
No. ____ Date ____ Date ____ Map No. ____ Date ____

F. B. 1299 Pg. 239

76L298 307 4-50

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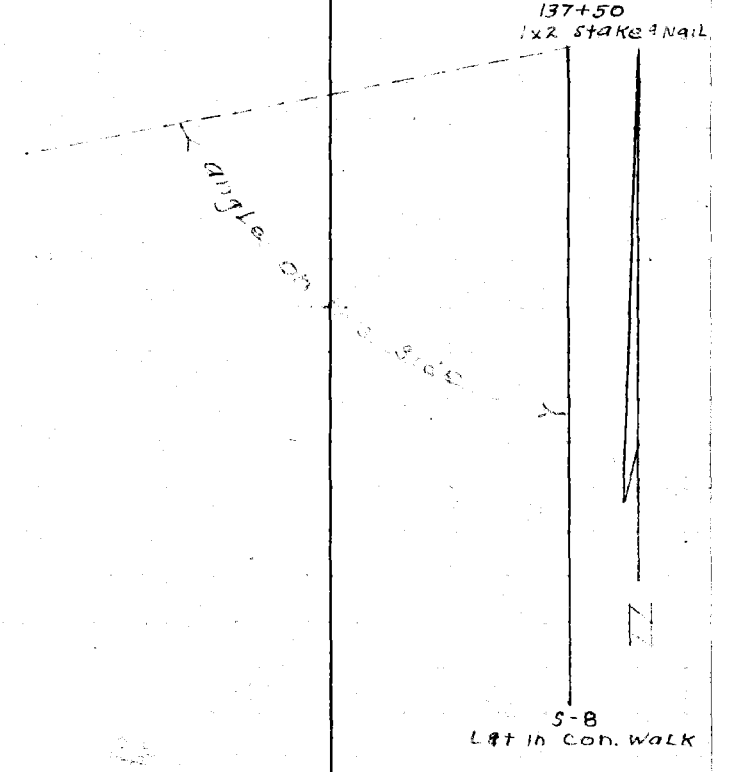
F. B. 1299 Pg 240 Job No. 8415 Division No. K Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Notes Notes Chkd. Checked No.
Indexed Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
							1	B+W		17	✓ Set in 142+50 S
							2	R		72	✓
							3	Y			✓
							4	B+W			✓
							5	R			✓
							6	Y			✓
							7	B+W	7 10	6	✓
							8	R			✓
							9	Y			✓
							10	B+W	7 22	5	✓
							11	R			✓

Set in 142+50 S



76L298 307 10-51

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Do not extend notes this side of this line. 147+50 BOAT

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance
1	BW	6 50	299 266	27.7	.4	27.3	1590
2	R		[illegible]	25.7		25.3	1423
3	Y		259 222	24.1		23.7	1328
4	BW	6 52	221 230	22.8	.4	22.4	1250
5	R		201 [illegible]	21.1		20.7	1150
6	Y		188 187	19.5		19.1	1060
7	BW	6 56	154 170	16.5	.4	16.1	958
8	R		141 [illegible]	15.1		14.7	912
9	Y		129 [illegible]	13.6		13.2	860
10	BW	6 59	118 123	12.5	.5	12.0	809
11	R		85	9.8		9.3	788
12	Y						
13	BW						

Boat 147+50 S

Profile No. ____ Notes Red FCW Plotted ____ Job No. 8412 Division No. V F.B. 1299 Pg. 241
Date 4-2-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes ____ Date 3.18.53
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	7 12	269	29.3	.6	28.7	1782	
2	R		263	26.9		26.3	1600	
3	Y		248	25.5		24.9	1442	
4	BW	16	230	23.9	.7	23.2	1361	
5	R		235	22.5		21.8	1230	
6	Y		219	20.3		19.6	1072	
7	BW	7 19	180	18.6	.7	17.9	962	
8	R		157	16.7		16.0	918	
9	Y		134	14.4		13.7	844	
10	BW	7 23	120	13.1	.8	12.3	790	
11	R		101	10.6		9.8	711	
12	Y							
13	BW							

Boat 142+50 S

3-18-53

F.B. 1299 PG. 242 Job No. 8412 Division No. Y Notes Red. LCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-3-53 Date X-Sec.
Survey by F.H.B. Notes KRL Notes Chkd. Checked
Indexed L. C. Johnson Date Date No.

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
					Cut-in X		
					Inst. at 132+50		
					Sight on 137+50		
137+50	1 33	16 62 ✓		15 29 ✓		✓	1X2
			3 0	13 6 ✓	5° 05'	44 ✓	Brk.
T.P.	2 08	5 98 ✓	12 72	3 90 ✓	14 08	126 ✓	"
			4 8	1 2 ✓	20 24	186 ✓	under water
			10 0	-4 0 ✓	29 26	282 ✓	" "
			10 5	-4 5 ✓	43 50	480 ✓	" "
			11 3	-5 3 ✓	46 40	530 ✓	" "
			13 3	-7 3 ✓	49 30	585 ✓	" "
			14 8	-8 8 ✓	52 16	646 ✓	" "

Inshore 137+30 S.

Profile Notes Red. Plotted Job No. 8412 Division No. F.B. 7298 Pg. 243
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes English Date 3-17-53
No. Date 4-23-53 Date Map No. Indexed Checked Date

76L298 307 5-49

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at S-7		
					Sight on 132+50		
132+50	0 66	16 79		16 13	✓	✓	1 x 2
			2 9	13 9	6° 51'	37 ✓	Brk.
			4 0	12 8	13 07	72 ✓	"
			8 0	8 8	17 49	99 ✓	"
T. P.	2 16	5 59	13 36	3 43	26 34	154 ✓	"
			5 4	0 2	37 41	238 ✓	under water
			8 5	-2 9	47 44	339 ✓	" "
			10 4	-4 8	58 01	494 ✓	" "
			11 4	-5 8	60 59	556 ✓	" "
			13 3	-7 7	64 16	640 ✓	" "
			16 0	-10 4	66 38	714 ✓	" "

Inshore
132+50 S.

F.B. 1299 PG. 244 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed [illegible] Date Date 4-23-53 Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At / On	#	Color	Time	Hor. Ang.		Remarks RANGE 137+50 S
137+50 S-8	1	B+W	7:36	90°28'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	7:44	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		89°22'	✓	
	7	B+W	7:52	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	7:55	90°00	✓	
	11	R		91°24'	✓	
	12	Y		89°29'	✓	
	13	B+W	8:00	90°29'	✓	
	14	R		90°00'	✓	

RANGE 137+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 265
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. & K.S. Notes K.S. Date 3-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Checked ____ Date ____

76L298 307 4-50

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F. B. 1299 Pg. 246 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by E.H.B. | Notes U.S. | Notes Chkd. | Checked | X-Sec.
Index C. Johnson | Date | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.	3-18-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 132+50 S
132+50	S-8	1	B&W	8:18	90° 12'	✓	
		2	R		90° 16'	✓	
		3	Y		90° 00'	✓	
		4	B&W	8:23	90° 00'	✓	
		5	R		90° 20'	✓	
		6	Y		90° 00'	✓	
		7	B&W	8:28	90° 00'	✓	
		8	R		90° 30'	✓	
		9	Y		90° 00'	✓	
		10	B&W	8:31	90° 42'	✓	
		11	R		90° 43'	✓	
		12	Y		90° 00'	✓	
		13	B&W	8:34	89° 13'	✓	
		14	R		89° 27'	✓	

RANGE 132+50 S

76L298 307 4-50

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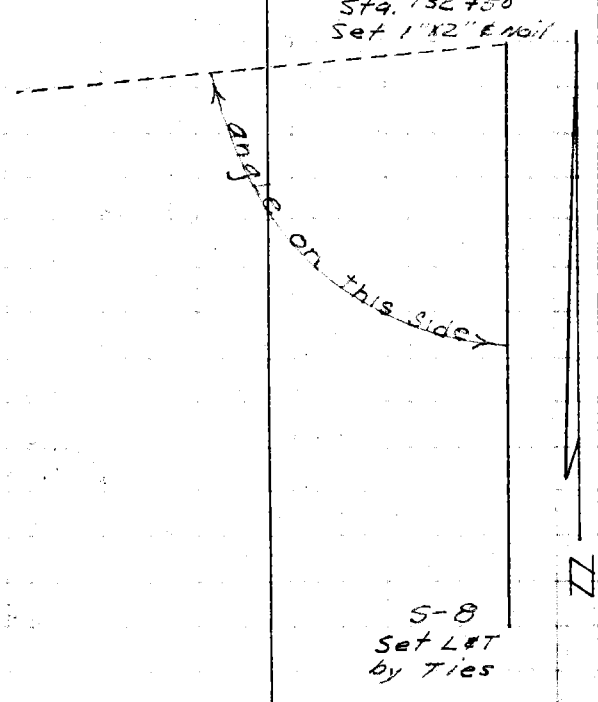
Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1799 Pg. 242
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Notes RG Date 3-18-53
No. Date Date Map No. Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On		# Color		Time Hor. Ang.	Remarks
132+50	S-8	1 BFW	7.35	74° 24' ✓	Cut in 137+50
		2 R		73° 00' ✓	
		3 Y		71° 39' ✓	
		4 BFW	7.44	70° 03' ✓	
		5 R		69° 38' ✓	
		6 Y		66° 07' ✓	
		7 BFW	7.52	65° 20' ✓	
		8 R		64° 49' ✓	
		9 Y		63° 29' ✓	
		10 BFW	7.55	62° 25' ✓	
		11 R		62° 09' ✓	
		12 Y		58° 05' ✓	
		13 BFW	7.59	56° 55' ✓	
		14 R		52° 37' ✓	



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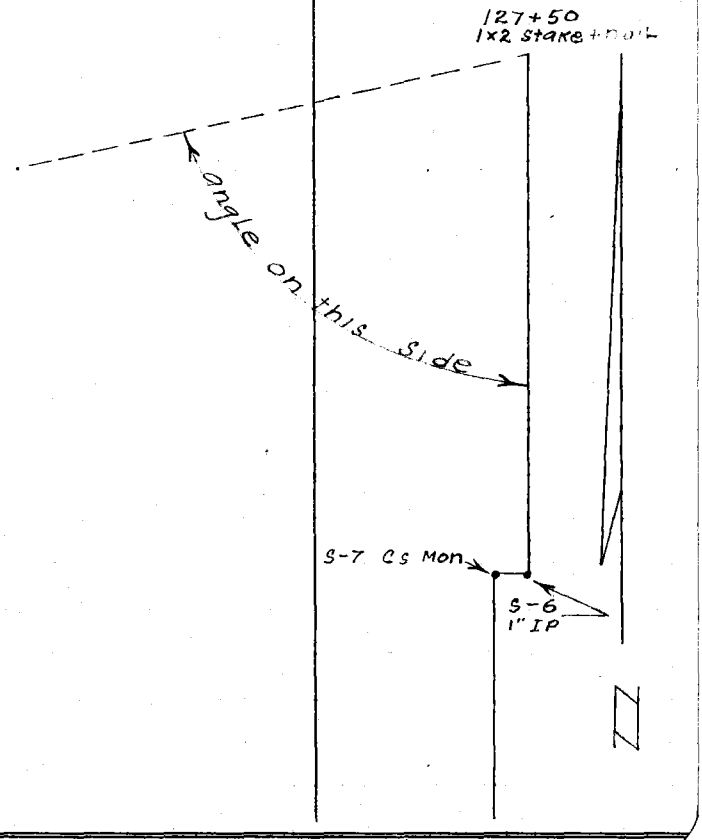
F. B. 1299 Pg. 248 | Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by C. Johnson Notes Chkd. Checked No.
Indexed Notes Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
127+50 S-6	1	B & W	8 18	76° 55'	✓	Cut in 132+50
	2	R		76 40	✓	
	3	Y		74 50	✓	
	4	B & W	8 23	73 35	✓	
	5	R		72 52	✓	
	6	Y		70 32	✓	
	7	B & W	8 28	68 16	✓	
	8	R		67 20	✓	
	9	Y		65 42	✓	
	10	B & W	8 31	63 59	✓	
	11	R		62 57	✓	
	12	Y		61 03	✓	
	13	B & W	8 34	58 45	✓	
	14	R		57 03	✓	

Cut in 132+50 S



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Do not extend notes this side of this line. 13750 B017

Profile Notes Red Raw Plotted Job No. 8412 Division No.
No. Date 4-3-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd KRK Checked Survey by F.H.S. Notes KRK Date
No. Date 4-28-53 Date Map No. Andrew Johnson Date

F.B. 1799 Pg. 649

STATION	B. S.	H. I.	F. S.	ELEV.		
# Color Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1 Bw	7 36	29.5	28.2	.9	27.3	1744 ✓
2 R		27.5	27.4	.9	26.5	1640 ✓
3 Y		27.9	27.0	1.0	26.0	1511 ✓
4 Bw	7 44	26.3	26.2	1.1	25.1	1390 ✓
5 R		25.9	25.8		24.7	1286 ✓
6 Y		23.6	23.5		22.4	1162 ✓
7 Bw	7 52	23.2	22.9	1.2	21.7	1090 ✓
8 R		22.0	21.5		20.3	1063 ✓
9 Y		21.2	20.1		18.9	1002 ✓
10 Bw	7 59	21.4	19.1	1.2	17.9	960 ✓
11 R		20.1	17.2		16.0	908 ✓
12 Y		15.8	14.6		13.4	816 ✓
13 Bw	8 00	14.8	13.1	1.3	11.8	761 ✓
14 R		11.2	10.1		8.8	657 ✓
15 Y						

Boat 13750 S

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	132+50 S Boat	
#	Color Time	Meas. Depth	Bottom Tide		Adj. Depth	Distance Remarks
1	B&W 8 18	310 / 287	29.5	1.7	27.8	1730
2	R	308 / 278	28.8		27.1	1688
3	Y	270 / 258	26.9		25.2	1520
4	B&W 8 23	282 / 247	25.9	1.8	24.1	1410
5	R	271 / 246	25.0		23.2	1322
6	Y	240 / 230	23.6		21.8	1180
7	B&W 8 28	220 / 208	21.2	1.9	19.3	1050
8	R	204 / 180	18.8		16.9	988
9	Y	182 / 168	17.3		15.4	930
10	B&W 8 31	180 / 150	16.0	1.9	14.1	840
11	R	164 / 142	14.9		13.0	806
12	Y	160 / 122	13.5		11.6	760
13	B&W 8 34	133 / 110	11.8	2.0	9.8	701
14	R	110 / 92	9.8		7.8	647
15	Y					

Boat 132+50 S

F.B. 1299 PG 250 Job No. 8412 Division No. V Notes Red. Rolls Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-3-53 Date X-Sec.
Survey by F.H.B. Notes Notes Chkd. KRK Checked No.
Indexed C. Johnson Date Date 4-2-8-53 Date

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 PG. 251

Date ____ Date ____ Survey of Beach Erosion Studies

X-Sec. No. ____ Notes Chkd. LAW. Checked ____ Survey by English Notes English Date 3-17-53

Date 4-23-53 Date ____ Map No. ____ Indexed K. C. Johnson Date ____

Inshore
127+50 S.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in ∡ Inst. at S-6 Sight on 127+50	
127+50	1 54	26 52		24 98		1x2
			1 4	25 1	5 13	17 Brk.
			6 3	20 2	8 56	30 "
			10 9	15 6	29 11	113 "
T.P.	0 00	12 07	14 45	12 07	38 39	153 "
"	1 65	5 72	8 00	4 07	50 26	232 under water
			5 2	0 5	58 16	310 "
			8 5	-2 8	63 42	388 "
			8 5	-2 8	68 58	537 "
			9 4	-3 7	72 25	604 "
			11 7	-6 0	73 49	660 "
			13 0	-7 3	74 35	695 "
			14 6	-8 9	75 04	718 "

76L298 307 5-49

76L298 307 8-49

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F.B. 12299 PG. 252 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by English Notes English | Notes Chkd. Lowe Checked | X-Sec.
Indexed C. Johnson Date | Date 4-23-53 Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∠		
					Inst. at 117+50		
					Sight on 122+50		
122+50	1 79	28 70 ✓		26 91 ✓		✓	1 x 2
			3 8	24 9 ✓	2° 56'	26 ✓	Brk.
			11 0	17 7 ✓	6 22	56 ✓	"
			12 7	16 0 ✓	9 21	81 ✓	"
			13 3	15 4 ✓	12 06	107 ✓	"
T.P.	0 00	13 70 ✓	15 00	13 70 ✓	14 29	129 ✓	"
			0 7	13 0 ✓	16 21	145 ✓	"
T.P.	1 84	6 39 ✓	9 15	4 55 ✓	23 12	212 ✓	"
			5 8	+0 6 ✓	29 20	281 ✓	under water
			8 8	-2 4 ✓	36 37	372 ✓	" "
			11 3	-4 9 ✓	42 04	450 ✓	" "
			11 8	-5 4 ✓	50 22	402 ✓	" "
			14 5	-8 1 ✓	54 26	499 ✓	" "

Inshore
122+50 S.

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

58 35

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 127+50-S
127+50 S-6	1	B+W	8:58	90°00'		
	2	R		90°54'		
	3	Y		90°41'		
	4	B+W	9:03	90°24'		
	5	R		91°01'		
	6	Y		90°31'		
	7	B+W	9:07	90°00'		
	8	R		90°32'		
	9	Y		90°00'		
	10	B+W	9:11	90°00'		
	11	R		90°00'		

RANGE 127+50 S

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Beach Erosion Studies F. B. 1299 Pg. 253
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes L.S. Date 3-18-53
No. Date Date Map No. Encoded Johnson Date

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1299 Pg. 234 | Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by E. H. B. Notes U.S. Notes Chkd. Checked X-Sec.
Indexed K. O. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	3-18-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 122+50-S
122+50	S-C	1	B/W	9:33	89°25'	✓	
		2	R		90°21'	✓	
		3	Y		90°18	✓	
		4	B/W	9:38	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B/W	9:42	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		89°38'	✓	
		10	B/W	9:47	90°00'	✓	
		11	R		89°22'	✓	
		12	Y		88°32'	✓	

RANGE 122+50 S

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

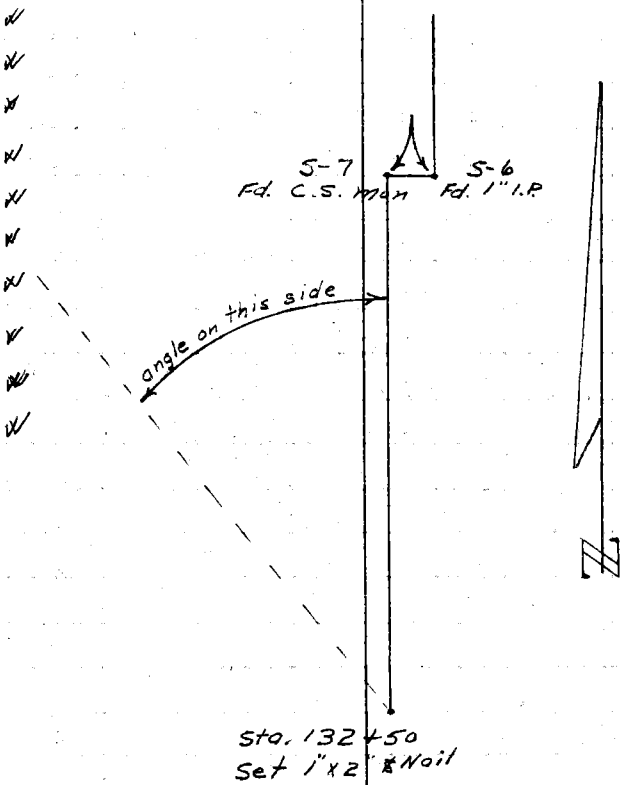
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.
132+50	S-7	1	B&W	8 58	74° 12'
		2	R		71° 37'
		3	Y		70° 24'
		4	B&W	9 03	68° 48'
		5	R		65° 43'
		6	Y		64° 40'
		7	B&W	9 07	62° 54'
		8	R		61° 58'
		9	Y		60° 21'
		10	B&W	9 11	57° 36'
		11	R		55° 33'
		12	Y		54° 20'

Remarks

Cut in 127+50



Cut in 127+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes RG Date 3-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1299 Pg. 255

76L298 307 4-50

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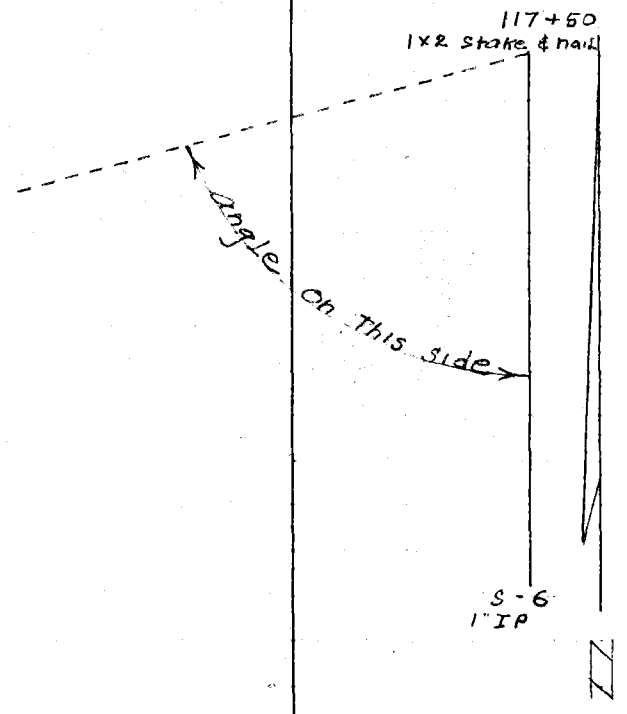
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 299 Pg. 258 | Job No. 2412 Division No. K Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by L. A. Johnson Notes Notes Chkd. Checked No.
Indexed Notes Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
117+50 S-6	1	B & W	9:33	72 41	✓	Cut in 122+50
	2	R		71 43	✓	
	3	Y		70 52	✓	
	4	B & W	9 38	67 22	✓	
	5	R		65 56	✓	
	6	Y		64 03	✓	
	7	B & W	9 42	62 24	✓	
	8	R		60 50	✓	
	9	Y		58 17	✓	
	10	B & W	9 47	56 31	✓	
	11	R		54 19	✓	
	12	Y		52 24	✓	

Cut in 122+50 S



76L298 307 10-51

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Profile Notes Red Lines Plotted Job No. 8412 Division No. V F.B. 1299 Pg. 257
No. Date 4-3-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd KRK Checked Survey by EH.S. Notes Date 3-18-53
No. Date 4-28-53 Date Map No. Indexed Johnson Date

STATION	B. S.	H. I.	F. S.	ELEV.	127+50 S Boat	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks Distance
1 BSW	8 58	29 0				
		27 2	27.8	2.5	253	1700 ✓
2 S		27 5				
		25 4	26.1		236	1548 ✓
3 Y		26 0				
		23 8	24.5		220	1442 ✓
4 BSW	9 03	24 0				
		22 0	22.7	2.6	201	1316 ✓
5 R		22 9				
		20 2	21.1		185	1173 ✓
6 Y		22 4				
		19 0	20.1		175	1060 ✓
7 BSW	9 07	20 3				
		17 8	18.2	2.7	155	1010 ✓
8 R		18 2				
		16 1	16.8		141	980 ✓
9 Y		17 1				
		13 2	14.5		118	920 ✓
10 BSW	9 11	15 9				
		11 4	12.9	2.7	102	836 ✓
11 R		13 2				
		10 3	11.3		86	783 ✓
12 Y		VOID				
13 BSW						
14 R						
15 Y						

Boat 127+50 S

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1299 PG. 259 Job No. 8412 Division No. V Notes Red. Lane Plotted
Survey of BEACH EROSION STUDIES Date 4-3-53 Date
Survey by F.H.B. Notes Chkd K.A.K. Checked
Indexed C. JOHNSON Date 4-28-53 Date
Profile No. X-Sec. No.

STATION		B. S.	H. I.	F. S.	ELEV.	122+50 S		Boat
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B & W	933	31 0	29.0	3.0	260	1552	✓
2	R		28 0 / 29 2	26.9		239	1495	✓
3	Y		25 7 / 27 9	25.3		223	1416	✓
4	B & W	938	24 0 / 25 7	23.3	3.1	202	1195	✓
5	R		22 1 / 23 7	22.0		189	1119	✓
6	Y		21 1 / 23 0	20.2		171	1030	✓
7	B & W	942	18 8 / 20 3	18.4	3.1	153	959	✓
8	R		17 5 / 17 9	16.4		133	898	✓
9	Y		15 7 / 18 0	14.7		116	818	✓
10	B & W	947	13 0 / 14 4	12.5	3.2	93	759	✓
11	R		11 5 / 14 5	12.2		90	722	✓
12	Y		11 0 / 12 0	10.0		68	678	✓
13	B & W		9 0					
14	R							

Boat
122+50 S

76L298 307 5-49

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in A		
					Inst. at 112+50		
					Sight on 117+50		
117+50	1 06	29 15		28 09		1X2	
			3 1	26 0	3° 27'	30 Brk.	
			8 1	21 0	5 18	45 "	
			12 9	16 2	10 04	89 "	
T.P.	0 00	15 94	13 21	15 94	12 11	108 "	
			2 3	13 6	15 34	140 "	
T.P.	1 52	6 86	10 60	5 34	21 55	192 "	
			5 3	1 6	27 22	257 under	water
			9 3	-2 4	35 12	340 "	"
			12 7	-5 8	39 59	420 "	"
			11 6	-4 7	49 28	587 "	"
			14 0	-7 1	52 30	650 "	"
			16 5	-9 6	56 24	757 "	"

Inshore
117+50 S.

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1299 PG. 259
X-Sec. No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
Notes Chkd. Date 4-23-53 Checked Date _____ Survey by English Notes English Date 3-18-53
Map No. _____ Date _____

76L298 307 5-49

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 107+50	
					Sight on 112+50	
112+50	1 62	27 79 ✓		26 17 ✓	✓	1x2
			1 3	26 5 ✓	2° 55' 22 ✓	Brk.
			6 8	21 0 ✓	4 30 38 ✓	"
			12 0	15 8 ✓	9 38 84 ✓	"
			12 0	15 8 ✓	13 04 116 ✓	"
T.P.	0 00	14 07 ✓	13 72	14 07 ✓	15 44 142 ✓	"
"	1 10	6 87 ✓	8 30	5 77 ✓	21 28 198 ✓	"
			4 5	2 4 ✓	26 13 246 ✓	under water
			9 0	-2 1 ✓	35 22 357 ✓	" "
			13 4	-6 5 ✓	52 11 646 ✓	" "

Inshore
112+50 S.

F.B. 1299 PG. 260
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes Chkd. [illegible] Checked No.
Indexed [illegible] Date Date 4-23-53 Date

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 117+50-S
117+50	S-6	1	B+W	10:03	89°39'	✓	
		2	R		89°35'	✓	
		3	Y		89°25'	✓	
		4	B+W	10:06	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	10:10	90°00'	✓	
		8	R		89°25'	✓	
		9	Y		88°05'	✓	
		10	B+W	10:15	88°45'	✓	

RANGE 117+50 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1299 Pg. 261
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes US Date 3-18-53
No. ____ Date ____ Date ____ Map No. ____ Indexed A.C. Johnson Date ____

76L298 307 10-51

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ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	3-18-53	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
							RANGE 112+50-S
112+50	S-6	1	B+W	10:33	90°00'	✓	
		2	R		90°00'	✓	
		3	Y		88°52'	✓	
		4	B+W	10:41	88°44'	✓	
		5	R		89°23'	✓	
		6	Y		90°20'	✓	
		7	B+W	10:44	89°43'	✓	
		8	R		88°31'	✓	
		9	Y		89°39'	✓	
		10	B+W	10:53	90°00'	✓	

RANGE 112 T50 S

F.B. 1299 PG. 262 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by E.H.B. Notes JS Notes Chkd. Checked No.
Indexed C. Johnson Date Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time Hor. Ang.	Remarks
112+50	S-6	1	B&W	10 03	71° 05' ✓
		2	R		69° 53' ✓
		3	Y		67° 06' ✓
		4	B&W	10 06	65° 16' ✓
		5	R		63° 06' ✓
		6	Y		59° 50' ✓
		7	B&W	10 10	56° 20' ✓
		8	R		58° 23' ✓
		9	Y		53° 40' ✓
		10	B&W	10 15	49° 29' ✓

Cut in 117+50

Sta. 112+50
Set 1/2" & Nail

angle on this side

S-6
Fd. 1" I.P.

Cut In 117+50 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.S. 1299 Page 2-5
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes R6 Date 3-18-63
Date ____ Date ____ Map No. ____ Indexed Job to Date ____

76L298 307 4-50

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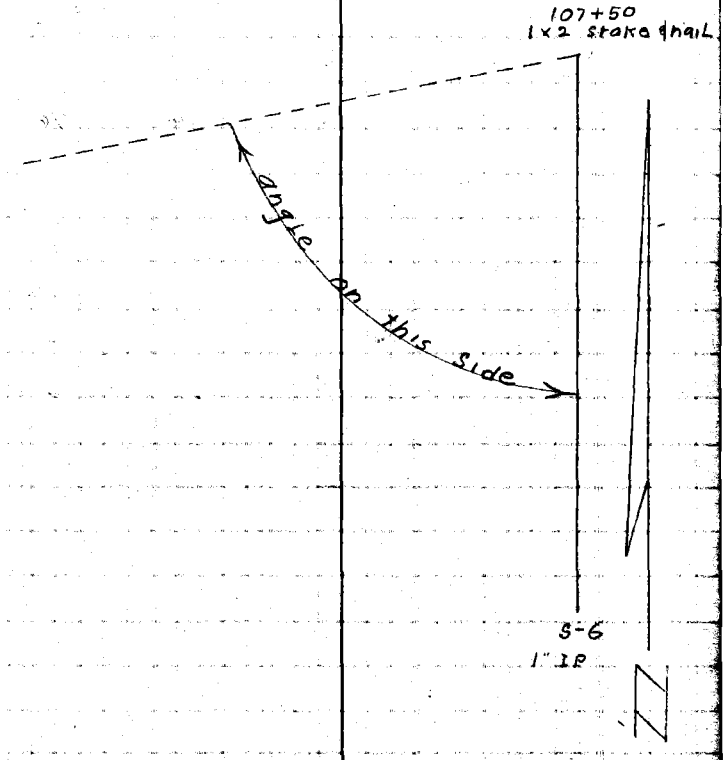
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst AT	Sight on	#	COLOR	Time	Hor. Ang.		Remarks
107+50	S-6	1	B&W	10 33	74 42	✓	Cut in 112+50
		2	R		72 52	✓	
		3	Y		69 09	✓	
		4	B&W	10 41	65 41	✓	
		5	R		62 02	✓	
		6	Y		59 19	✓	
		7	B&W	10 44	55 14	✓	
		8	R		51 07	✓	
		9	Y		55 39	✓	
		10	B&W	10 53	60 10	✓	



Cut in 112+50 S

F.B. 1299 Pg. 264 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	117 + 50 S Boat		
#	Color Time	Meas. Depth	Bottom Tide		Adj. Depth	Distance	Remarks
1	B&W 10 03	28.8 26.4	27.2	3.3	23.9	1490	
2	R	27.0 24.7	25.5		22.2	1400	
3	Y	26.3 23.5	24.4		21.1	1212	
4	B&W 10 06	24.2 21.2	22.2	3.4	18.8	1088	
5	R	21.2 19.2	19.9		16.5	988	
6	Y	18.5 16.8	17.4		14.0	860	
7	B&W 10 10	15.4 13.6	13.8	3.4	10.4	751	
8	R	17.4 15.1	15.9		12.5	827	
9	Y	16.5 10.8	12.7		9.3	694	
10	B&W 1 17	11.3 7.5	8.8	3.5	5.3	500	
11	R						
12	Y						
13							
14							

Boat 117+50 S

Profile Notes Red Pour Plotted Job No. 84 Date 4-3-53 Date Survey at Beach Erosion
No. X-Sec. Notes Chkd. Checked Survey by EHB Date
No. Date 4-28-53 Date Map No. Date

Notes Red. [illegible] Plotted _____ Profile _____
Date 4-3-53 Date _____ No. _____
Notes Chkd. [illegible] Checked _____ X-Sec. _____
Date 4-2-8-53 Date _____ No. _____

[illegible] 307 4[illegible]

LO[illegible]
726 [illegible]

STATION [illegible] REV. [illegible]

N 24 [illegible] 03 BOAT

#	Color	Tide	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	B&W	1[illegible]33	30 9 29.0	29.6	3.6	26.0	1830	
2	R		30 1 27.0	28.0		24.4	1630	
3	Y		26 1 24.5	25.0		21.4	1394	Continued in
4	B&W	1[illegible]41	25 0 23.7	24.1	3.7	20.4	1121	F.B. 1884
5	R		22 0 19.8	20.5		16.8	951	
6	Y		18 4 15.5	16.5		12.8	862	
7	B&W	1[illegible]49	14 9 11.8	12.8	3.7	9.1	728	
8	R		12 0 8.0	9.3		5.6	631	
9	Y		10 8 12.5	13.9		10.2	741	
10	B&W	1[illegible]53	19 2 16.9	17.6	3.8	13.8	874	
11	R							
12	Y							